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Melrose.

CITY OF MELROSE, MASSACHUSETTS.

Annual Reports, 1900,

WITH MAYOR'S INAUGURAL ADDRESS
DELIVERED JANUARY 1, 1900.



PUBLISHED BY ORDER OF THE BOARD OF ALDERMEN, UNDER
THE DIRECTION OF THE CITY CLERK.

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LEVI S. GOULD.



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INAUGURAL ADDRESS
OF
HON. LEVI S. GOULD,
FIRST MAYOR OF MELROSE,
DELIVERED JAN. 1ST, 1900.

Gentlemen of the Board of Aldermen :

By the wisdom of those who have the power to demand it, we have been called to the responsible position of representing them in a delegated form of government, a novel condition to all of us. The transition from the familiar and democratic gathering at a town-meeting in which every citizen is the equal of his neighbor and every voter has the same privileges, to the formal and rigid conventionalities of an organized deliberative body is a step of the gravest magnitude. Let us rise to the dignity and importance of this great change, and resolve that in all our deliberations we will have but one thought in view, to honor our fellow citizens who have with such faith and confidence so highly honored us, and in our every action endeavor to divine the desires of those who are forever deprived of the high privileges which they have conferred upon us as their chosen representatives.

THE MATTER OF TAXATION.

Melrose is essentially a city of habitations. Our business

interests are of a purely local character except the rubber factory and two or three other manufacturing firms of lesser magnitude, so that the immediate concern of our people in the real property of the city is directed to the accumulation of sufficient means to free their homes from all incumbrances. With the many and constantly increasing expenditures which surround us, it becomes a question of serious magnitude to the average house-holder as to how he shall maintain his family and lay by even a small amount to free his little property or as a sinking fund for the inevitable rainy day. Thus the subject of taxation is brought to him more distinctly than to the business man or capitalist in a mart of commerce. For this reason, if for none other, I beseech the gentlemen of this board to wisely consider every proposition which may come before them for any unnecessary addition to the burdens which our common people are now obliged to bear, always remembering that any increase of taxation, and every accession to our bonded indebtedness, will make it harder for them to bear, and perhaps place it beyond the reach of many to realize the hopes of a lifetime. Appended will be found tabulated statements of great public interest intimately connected with taxation and valuation.

THE CITY'S FINANCES.

The following tables taken from the treasurer's books Dec. 23d, 1899, will give you a concise and general understanding of the financial condition of our city, viz :

Statement of Town Debt, Dec. 23d, 1899.

Town Hall bonds,	. . . .	\$45,000 00
Water bonds,	. . . .	247,000 00
Sewer bonds,	350,000 00
School house bonds,	200,000 00

Total bonded indebtedness,	\$842,000 00
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Permanent Loans.

Grove Street schoolhouse,	\$11,000 00	
Central fire station,	20,000 00	
High school building,	19,000 00	
Stone crushing plant,	8,000 00	
Ell pond park,	15,000 00	
	<hr/>	\$73,000 00
Temporary loans,		72,374 37
Due to the water fund from collections on said account,		9,487 89
Due to the sewer fund from collections made on sewer assessments,		12,618 80
Due on cemetery trust funds,		5,212 50
Due on the Dr. Toothaker fund,		781 33
		<hr/>
Total indebtedness,		\$1,015,474 89

Assets.

Uncollected taxes (about \$5000 doubtful),	\$123,535 57	
Due from the commonwealth,	3,011 50	
Water loan sinking fund,	26,078 44	
Schoolhouse sinking fund,	11,783 55	
Sewer sinking fund,	58,509 62	
Cash on hand,	5,036 39	
	<hr/>	\$227,955 07
Total net indebtedness Dec. 23, 1899,		787,519 82
Total amount of sewer assessments committed the collector to date, is about	\$166,000 00	
Total amount collected to date,	62,618 80	
	<hr/>	
Still due,	\$103,381 20	

Should this balance be all collected it will reduce our net indebtedness to \$787,519.82 less \$103,381.20, total \$684,138.62. To this should be added say \$5000 for bad and

doubtful taxes, and there will be other bills against the town not yet presented, as well as a somewhat indefinite amount of unpaid bills of the school department, and quite a contingent inherited from the town, used in starting the wheels of the city government. By reference to the tables under the caption of taxation it will be found that the assessed value of the following public property is within \$110,138.62 of our net indebtedness, viz: Schoolhouses and grounds, \$380,675; engine houses and grounds, \$25,550; town hall and grounds, \$93,675; poor house, cemetery, parks, stone crushing plant, etc., \$74,100; total, \$574,000. This does not include our water works or sewerage system, which together have cost the town upwards of \$800,000, neither does it include fire apparatus and many other things, bringing these items up to at least \$1,400,000, so that in striking a balance of net assets as against net liabilities, we can show a surplus in public property of at least \$700,000 paid for in previous years. This is not intended as an argument for expansion or extravagance, against which your executive will firmly set his face, but to show that we have something to exhibit for the money heretofore expended.

VALUABLE STATISTICS.

APPROPRIATIONS, 1899.	VALUATION, 1899.
Town,.....\$191,391 10	Personal Estate, \$784,920 00
State Tax,.....6,645 00	Resident Bank
Metropolitan Sewer, ..9,645 53	Stock,.....60,165 00
County Tax,.....12,007 07	Total Personal,.....\$845,085 00
Overlay,.....3,013 69	Real Estate,.....11,820,350 00
	Total Valuation,.....12,665,435 00
	Tax at \$17 per
	\$1000 on Per-
	sonal Estate,...845,085 0014,366 44
	Tax at \$17 per
	\$1000 on Real
	Estate,.....11,820,350 00200,945 95
	Assessed on 3,695 polls,....7,390 00
Total,.....\$222,702 39	Total,.....\$222,702 39

RETURN OF CORPORATIONS MAY 1, 1899, TOWN OF MELROSE.

NAME OF CORPORATION.	VALUE BUILDINGS	VALUE LAND.	VALUE M'CHINR'Y	TOTAL VALUE.
Boston Rubber Shoe Company,.....	\$322,800	\$78,825	\$125,000	\$526,625
Boston Ice Company, .....	.....	1,950	.....	1,950
Boston & Maine Railroad Company..	5,000	32,950	.....	37,950
Lynn & Boston Railroad Company, ..	8,000	5,000	.....	13,000
PIPES, METERS, ETC.				
Malden & Melrose Gas Company,....	5,000	3,150	13,000	21,150
Malden Electric Co., Poles and Wires, .....	.....	.....	.....	10,000
Carpenter-Morton Company,	2,300	775	.....	3,075

Value Real Estate, 1899, . . \$11,820,350

Value Real Estate, 1898, . . 11,750,895

Gain in 1899, . . . \$69,455

Value Personal Estate, 1899, . 845,085

Value Personal Estate, 1898, . 724,249

Gain in 1899, . . . 120,836

Total increase over 1898, \$190,291

EXEMPTED PROPERTY, MAY 1, 1899, TOWN OF MELROSE.

SOCIETY OR CHURCH.	STREET.	VALUE OF BUILD'GS	FEET LAND.	VALUE OF LAND.	TOTAL VALUE REAL ES- TATE.	PERSONAL.	TOTALS.
Baptist.....	Main.....	\$15,000	29,000	\$21,750	\$36,750	\$1,200	\$37,950
St. Mary's Catholic.....	Herbert...	40,000	21,861	4,375	44,375	5,000	49,375
Episcopal.....	Emerson..	20,000	25,385	6,350	26,350	1,500	27,850
High'lds Congregational.....	Franklin..	30,000	15,000	2,250	32,250	2,000	34,250
Methodist Episcopal.....	Main.....	16,500	21,200	4,250	20,750	2,500	23,250
Orthodox.....	Foster....	20,000	48,572	12,000	32,000	2,500	34,500
Pratt Memorial.....	*	3,000	11,700	300	3,300	100	3,400
Unitarian.....	W. Ems'n..	9,000	9,452	2,850	11,850	1,000	12,850
Universalist.....	Essex.....	16,000	10,750	2,700	18,700	2,000	20,700
First Free Baptist.....	Green.....	7,000	15,763	1,875	8,875	500	9,375
Melrose Highlands Bapt.	Frankliu..	3,000	7,650	925	3,925	100	4,025
Melrose Hospital Asso'n	Myrtle....	8,500	9,153	2,275	10,775		10,775
Young Men's Ch'n Ass'n	Main.	†25,000	†14,280	6,400	31,400	5,000	36,400
Jewish Cemetery.....	Linw'd av.	400	22,600	900	1,300		1,300
Totals.....	.....	\$213,400	.....	\$69,200	\$282,600	\$23,400	\$306,000

* Swain's Pond Avenue.

† \$40,000, assessed \$15,000.

‡ \$7,900, assessed \$1,500.

REAL ESTATE BELONGING TO TOWN OF MELROSE MAY 1, 1899.

SCHOOL HOUSES.	STREET.	VALUE.	FT. LAND.	VALUE.	TOTAL VALUE.
Franklin.....	Franklin and Main	\$30,000	21,752	\$5,450	\$35,450
Washington.....	Lebanon & Lynde	30,000	30,794	4,000	34,000
D. W. Gooch.....	Foster and Maple.	25,000	27,815	4,175	29,175
Horace Mann.....	Grove and Myrtle.	20,000	26,361	4,475	24,475
Mary A. Livermore.....	Main.....	12,000	26,555	4,800	16,800
Joseph Warren.....	Warren.....	16,000	18,572	2,000	18,000
Lincoln.....	Wyoming avenue.	30,000	27,604	4,975	34,975
Sewall.....	Upham.....	10,000	14,748	5,150	15,150
Winthrop.....	First and Eleventh	11,000	26,544	1,325	12,325
Whittier.....	Franklin.....	8,000	15,000	1,800	9,800
Converse.....	Fells.....	5,000	21,017	1,050	6,050
Ripley.....	Swain's Pond ave.	2,200	14,567	425	2,625
High.....	Main.....	100,000	116,385	29,925	129,925
Old School.....	Lynde.....	2,000	12,000	1,800	3,800
Old School.....	Franklin.....	1,000	11,880	1,900	2,900
Old School.....	Green.....	1,000	24,500	2,450	3,450
Old School.....	Upham.....	1,200	11,400	575	1,775
Totals.....	.....	\$304,400	.....	\$76,275	\$380,675

FIRE DEPARTMENT.	STREET.	VALUE.	FT. LAND.	VALUE.	TOTAL VALUE.
Highland Hose	Franklin	\$1,200	10,267	\$2,150	\$3,350
W. E. Barrett Hose	E. Foster	1,800	2,625	400	2,200
Central Fire Station.....	Main	20,000	*		20,000
		\$23,000	.....	\$2,550	\$25,550
Town Hall	Main	\$65,000	44,934	\$28,675	\$93,675
Wyoming Cemetery, Sylan.....			20½ a. }	\$30,000	\$32,000
Lebanon street (house)		\$2,000	27a. }		
Stone Crusher, Linwood avenue.....		4,800	132,877	3,200	8,000
Sewall's Woods Park			9a & 10000	11,250	11,250
Melrose Common.....			4 35-100	10,000	10,000
Tri-lot, Main and Green.....			5,000	500	500
Tri-lot, Main and Lynde			5,000	1,250	1,250
Strip east side Ell Pond.....				1,000	1,000
Emerson, corner Lake avenue.....			30,300	9,100	9,100
Old Crusher lot.....			49,015	1,000	1,000
		\$6,800		\$67,300	\$74,100

SUMMARY.

Schools and Grounds,	\$380,675
Fire House and Grounds,	25,550
Town Hall and Grounds,	93,675
Poor House, Crusher House, Cemetery, & other lands,	74,100
Total,	\$574,000

* See Town Hall lot.

POLICE DEPARTMENT.

A well organized police force is an absolute necessity and will continue to be such so long as the people are given to the gratification of depraved appetites. Rum is the direct or indirect cause of ninety-nine one hundredths of the crime with which we have to deal, and until the halcyon days of

total abstinence are at hand, we may expect to increase our force in proportion to the increase of crime which surely follows in the path of increased intemperance. Upon careful examination it may be found advisable to add to the permanent force which at present consists of a chief and nine patrolmen.

KITCHEN BAR-ROOMS AND THE RUM HABIT.

The orders of the executive will be to keep a strict watch on all suspected places and allow no guilty person to escape. While the shocking events of the past few days do not indicate the illegal sale of liquor in this community, they certainly show the terrible results of the rum habit and the necessity of guarding the public against the sin and shame of a crime which degrades manhood, brutalizes the instincts, destroys the sanctity of home, and undermines the foundations of society. As a vice perhaps innocently acquired at the fireside and encouraged at the festive board, it too often culminates in the bar-room, the brothel and the convict's cell. Misery and degradation are its hand-maidens, death and destruction its sure rewards.

SUPPORT OF THE POOR.

From personal examination I heartily commend the admirable management of this department, being a radical departure from the shiftless and incompetent methods of former years.

Establishing a poor farm was a much needed improvement which the town should have adopted years ago. An experience drawn from many years of observation, strengthened by service upon the county board of which I am chairman, leads me to the belief that the chairmanship of the overseers of the poor when conducted upon the lines followed by the present incumbent in this city, is of the utmost importance. To master the pauper settlement laws of this commonwealth is the study of many years, and he who arrives at that distinction should be retained therein as an invaluable public servant.

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Your attention is called to the rapid increase in our pauper insane, largely attributable to the effects of rum, licentiousness and secret vice. It is an alarming condition and adds a constantly increasing burden to the state, county and municipality. I refer interesting statistics, etc., for your consideration.

FIRE DEPARTMENT.

Our Melrose department is conceded to be as fine a body of men both in action and personnel, as can be found under similar conditions in this commonwealth. Since the advent of the old "Endeavor" in 1846 we have steadily progressed both in equipment, methods and discipline. It cannot be said that we have arrived at perfection by any means, and you may discover existing conditions which ought to be remedied. I do not care to make suggestions in that direction, believing as I do that our department is well officered and manned and is doing good and efficient service.

PUBLIC WORKS DEPARTMENT.

This department when fully organized will include under the management of the engineer and superintendent of public works, the highways, sewers, water works, parks, public buildings and the lighting, watering and general custody of all public property not otherwise specially intrusted by statute law to other officials. It is a most important feature, and from its operation, if no mistake is made in the selection of a competent chief, very satisfactory results should be obtained. As may be evident, the position demands the highest degree of talent and faithful service. This officer should be more than an engineer, more than a builder of highways, more than a competent manager of the sewers, the water works, the public parks and public buildings; he should be a capable man of business, with that gentlemanly address and suavity of manner which should mark the immediate and active representative of the mayor, who is his chief. To satisfy the demands of an exacting public, his moral reputation should be equal to that of

Caesar's wife and his integrity beyond reproach. The success or failure of the gentleman whom I may select for this important position, in a very large degree, means the success or failure of my administration, which will be duly chronicled by the second mayor of Melrose when he wrestles a year hence with this perplexing problem. Perhaps that gentleman may be listening to us now, if so I request that he pass me by with that familiar Latin quotation "*requiescat in pace*," may he rest in peace, his troubles are over.

AS TO THE HIGHWAYS.

Someone has said that the people of Melrose would never have consented to a city form of government except from the condition of our highways and the unanimous sentiment for their improvement. Be that as it may, no one can doubt but that your earnest efforts should lie in this direction. As chairman of your board of county commissioners I am dealing with the question of good roads all the time and know whereof I speak. The sentiment of the people of Middlesex is a unit upon this subject. Nowhere in my travels are their need more apparent than in this city which is far behind any sister municipality, and scarcely up to the standard maintained in many rural towns. I speak of the main avenues particularly and not of the by-streets, many of which are in excellent condition. I am aware that conditions have been largely against us in the divided interests of the past, and have no criticism to offer upon individual officials, but upon the system which permitted the tearing up of streets by different departments without regard to prudence or economy. I would urge you therefore to so consider matters that our first efforts be directed to the improvement of Main, Washington, Lebanon, Wyoming avenue, Franklin, Howard and Upham streets, all main arteries of travel. It seems to me that other streets should be economically and properly repaired until those named are all macadamized. Not that I think it wise or prudent to do this work all at once, but to push it along from year to year under a judicious system. I am told that the "L. A. W." (of which I

am not a member, having always preferred a good trotter, as everybody knows, to working my own passage) warns its members against the roads of this city. This perhaps is not a matter of grave importance, but it certainly emphasizes the fact that our short-comings in this regard are giving us an unenviable notoriety. Good roads are among the best evidences of public prosperity.

Expenditures, etc., on the highway department is appended from which it appears that the entire amount expended during the year 1899 is \$26,671.72. Of this sum \$1,819.65 was received from various sources of revenue outside of appropriations made by the town, much the larger portion of which came from the Lynn & Boston Railroad Co.

STATE HIGHWAYS.

Melrose has made no application in this direction, in fact with the exception of Arlington, she is the only place in the county which has not done so. This matter should receive the early attention of your board, as we are paying our share of those built in other places and receive no consideration ourselves. It adds to both state and county taxation without local advantage unless some street like Main street is made a part of the system.

WATER WORKS.

Our water works have been well managed by the commissioners in the past, and will surely take care of themselves in the future. From an intimate knowledge of the internal affairs of this section of the public works department I have no suggestions to make at the present time. I attach valuable information furnished me by the commissioners.

SEWERS.

The sewer system of Melrose was laid out by Walter C. Stevens, C. E., under the direction of a committee of which I had the honor to be chairman. It was constructed by the present board of sewer commissioners and has been managed

so far as my observation goes, with care, skill and fidelity. While it has added a great burden of debt to the city, and great expense to individuals, it will in the end prove a boon of almost incalculable value to the health and general welfare of our citizens. Attached are certain matters of interest relative thereto from which it appears that we have 32.79 miles of constructed sewers to date, the net cost of which when all collections outstanding are made will be \$181,813.81. There are about 2500 houses on the line of the sewers, of which 1660 have been connected.

PUBLIC PARKS.

Melrose is wonderfully favored in situation. We have the great Middlesex Fells reservation containing Spot Pond and all its convenient and beautiful system of roads and boulevards stretching the whole length of our western boundary, and communicating with the great Metropolitan Boulevards; on the East is "Pine Banks Park," supported by the generosity of one of the noblest benefactors of his generation, Hon. Elisha S. Converse; in the center "Sewall's Woods" and "Ell Pond Park," and on the east side, the "town common," besides several other squares and breathing places. No city has such a combination at so slight an expense. Some day we shall awake to this fact, and when we do I am not prepared to say as to what heights our present valuation of real property may soar. The building of a boulevard through our town to connect the "Fells" with the Lynn woods is believed to be as good as assured, if all goes well and the legislature does not insist upon a "cheese paring" policy in appropriations. With that consummation what more can be desired to beautify and perfect our city as one of the most delightful suburbs of the metropolis.

BOARD OF HEALTH.

Sewerage connections and plumbing rules seem to have exercised the minds of many citizens regarding the practical work of this very important board. It is their bounden duty to care for the health and general sanitary conditions

of the community, and while many fret and chafe under what they may consider unnecessary demands or unwise restrictions, still I am convinced that on the whole the board has acted according to their convictions of duty, to fall short of this would mean chaos and confusion. This government inherits from the town a set of rules and regulations for plumbing reported by a committee at the final town meeting and referred to us which I commend to your careful consideration.

THE PUBLIC SCHOOLS.

Through the wisdom and generosity of a people not overburdened with this world's goods the standard of our public schools has been raised to a point of excellence which compares favorably with those of any sister municipality. While the advantages of a liberal education are not to be denied, some of our foremost scholars and ablest thinkers are of the opinion that the preparatory college courses ought not to be taught at the public expense, holding as I suppose, that all the commonwealth originally intended in the establishment of public schools is contained in Sec. I, Chap. 44 of the public statutes wherein is stated, "In every town there shall be kept for at least six months in the year, at the expense of said town, by a teacher or teachers of competent ability and good morals, a sufficient number of schools for the instruction of all the children who may legally attend school therein, in orthography, reading, writing, English grammar, geography, arithmetic, drawing, the history of the United States, and good behavior." The contention is, that if a child masters all these elementary branches and then shows aptitude and a desire for higher grades he will naturally drift toward classical institutes and the college, but in any event he has been provided with that practical education which best serves the young man who is to enter upon the battle of life and expects to conquer with his own right arm and the sweat of his brow. It has also become somewhat of a question in the minds of many, as to how we should be furnished in process of time, with mechanics and laboring

men if the hidden lore of the classics is to continue to be an open book to all who choose to delve therein at the public expense, because in too many instances the highest form of education carries with it a contempt, or at least an aversion to that honest manual toil which is the foundation of society. Besides this, the country is largely overstocked with scientific, literary, and professional men of all descriptions who are at a loss how to earn a decent living. However the onward march of progress has brought us face to face with many problems heretofore, and these will be solved as all others have been, by the strong good sense of the people. I am glad to be able to chronicle the fact, that in this community there is no question of caste or sect and that all unite to honor a noble system, to the ample continuance of which I commend your generous support. Being myself a product of these same schools while they were in the chrysalis, I honor them all the more in their perfection.

THE PUBLIC LIBRARY.

This department has grown to be a necessary adjunct to the school system and in almost every town of the commonwealth one of greater or less pretensions has been established at the public expense or through private benefaction. Our library is quite extensive and has been well and judiciously managed in the past. At the present time it occupies a central position convenient of access to all our citizens. It should never be removed outside the limits of its present distance from the town hall, which is very near the center of the city, the geographical center being within a few feet of the corner of Lebanon and First streets. It is to be hoped that the munificence of some public spirited citizen may in the near future bring to us a suitable memorial building wherein can be installed our public library, which, it goes without saying, needs more ample accommodations than can be obtained in any other way. The Baptist church lot would be an ideal location for such a structure.

AMENDMENT TO CITY CHARTER.

No charter is or can be perfect. Probably ours is better than any other but there is room for improvement. Human nature averages about the same wherever you meet it and the natural tendency of one man's mind reflects a fair average of the minds of all men. It is hard for a public official during his first term to so regulate his actions that no man can say that he has not an eye singled for re-election. Out of this condition arises much of the criticism of American municipalities. It could be easily corrected by making the mayor's term two years and prohibiting a re-election until the expiration of an intervening term. In token of sincerity I publicly announce my determination not to be a candidate for re-election and recommend that a petition be presented to the general court embodying the plan above set forth.

AS REGARDS THE MAYOR.

The charter absolutely divorces the executive from the aldermanic department and permits no official intercourse except in the most formal manner. It also provides that the "executive powers of the city shall be vested solely in the mayor, and may be exercised by him personally or through the several officers or boards of the city in their respective departments, under his general supervision and control." Thus it is apparent that the mayor has been elected as the absolute head of the business affairs of the city, in fact the general manager to whom all officials and all employes are subservient and for whose work and conduct in office he alone is responsible to the people. The magnitude of this responsibility is patent. Let it be understood, that every officer and every employee will be held strictly accountable to me for the character of the service he renders, and that no combination of politics, friendship or circumstances will be allowed to conspire to shield an offender. All heads of departments will be responsible for their own work as well as that of their subordinates, and will report to me as often as the character of the service demands.

No man who is inefficient will be tolerated, and no man looking for a "soft snap" need apply, as there will be none under this administration if I can prevent it. Business and business alone will be our motto.

Gentlemen of the Board of Aldermen:

The advent of a new year, bringing to the thoughtful mind visions of enlarged responsibilities and of increased activities together with well meaning resolutions for a more conscientious application to duty, is always an interesting event, but to you and I the present moment is a most solemn occasion, standing as we do upon the threshold of a new century and a new undertaking; behind us the expiring embers of the past freighted with surpassing marvels in the realms of literature, science and art; before us the dim and distant future into which we peer with bewilderment, wondering what secrets may be treasured there to eclipse, or even equal, the perfection of steam as a motive power, the magical effects of electricity, the consummation of the art of printing and type setting, the telephone and those terrible engines of destruction used in the horrible arts of war, all of them creations of the last hundred years and mostly co-existent with some epoch in the life of our town now nearly extinguished and about to pass into history. Magical changes have been wrought in physical conditions during the latter half of the passing century, nowhere more apparent than in this community. Within this chamber are those who can remember when old Aaron Butler drove a stage-coach from Reading to Boston three times a week, so scantingly patronized and the receipts so small that the poverty-stricken, half-starved brutes which hauled the rickety vehicle were hooted at by the urchins of Charlestown as candidates for the bone-yard, much to the discomfiture of the driver and his passengers. Contrast this picture with our fifty or more splendidly equipped and well patronized steam trains, whisking us along daily over their iron beds, from one convenient station to another, almost with the rapidity of thought, and the ever welcomed "electric" which takes us along the ordinary lines of travel and

leaves us at our own doorsteps with the very maximum of comfort and the minimum of expense. In those early days the entire territory now contained in the city of Melrose possessed less than forty houses and as late as 1843, two years previous to the completion of the Boston and Maine railroad, the entire population could not have exceeded three hundred souls. The center grammar school marks the spot where the only schoolhouse in North Malden stood. It was burned in or about 1845. At the Highlands, near the corner of Franklin street and West Hill avenue, then the east school district of Stoneham, stood the conventional "little red schoolhouse," never containing more than nine scholars at one time, of which your first mayor had the distinguished honor of being a graduate. One of its masters, the venerable and honored Deacon Silas Dean, for more than 40 years town clerk of Stoneham, is now living in the possession of all his faculties.

None of our people at that time were very rich and none were very poor. During the long days of summer the men cultivated their lands and harvested peat for fuel, coal being then unknown, and in the winter worked at shoe-making the shoe-maker's shop being a necessary appendage to every household, while the women in addition to domestic duties, earned their spending money by binding shoes. Thus they lived as a happy and contented community because their wants were few and easily supplied. What a commentary on the high tension and extravagance of the present generation, where real comfort and domestic happiness is too often sacrificed to luxury and ease, or to the insatiate demands of the demon of appetite. They were also a religious people and supported two Methodist churches for many years. The annual town meeting was their gala day and it was a novel and interesting sight to see them assemble in early morning and to the inspiring tune of "Yankee Doodle," played by "ye ancient" fifer, and the "rub a dub dub" of Grover's drum, march down to Malden. Many times they captured the office of selectmen and once, only once, they came within a single vote of electing their candidate for representative to the general court, the late Elbridge

Green, who died in recent years at an advanced age. Such were the men who were active in this community previous to the middle of the nineteenth century. Most of them have passed away but there still remains Freeman Upham, hale, erect and hearty at the age of 87, Abel Willis, 81, James G. Emerson, 82, George E. Fuller, 82, Charles Boardman, 76, Aaron Vinton, 73, George Emerson, 74, George Newhall, 76, George F. Boardman, 77, George P. Fuller and possibly others who were in the prime of life and participated at the birth of Melrose and have been life long residents among us. May their lives be spared for many years to grace us with their presence and aid us with their counsel. Much, and perhaps too much time has been expended in this digression, but it seems proper that one who was a youthful observer of the times whereof he speaks should place his observations on record, that a moral of value may be drawn therefrom.

And now gentlemen of the board, permit me to request you to unite with me in an earnest effort to render to our fellow citizens by whom we have been so highly honored, the very best service in our power to bestow. Let every act and every decree be honest, independent and absolutely free from prejudice and all entangling alliances. May jealousy, distrust and petty strife obtain no lodgement here, and a supreme desire to elevate the government of our new city to a position above reproach actuate each and every one. Thus, and thus only, will our doings merit the plaudits of our own consciences and receive the approbation of those whose interests we have sworn to serve and protect. To this end let us pledge our sacred honor in firm reliance upon His promise, no matter where our paths may lead, that "the eternal God is thy refuge and underneath are the everlasting arms."

Government of the City of Melrose.

1900.

MAYOR.

LEVI S. GOULD.

PRESIDENT OF THE BOARD OF ALDERMEN.

GEORGE R. JONES.

ALDERMEN-AT-LARGE.

FOR TWO YEARS.

JONATHAN C. HOWES.
CHESTER SHEPARD.

CHARLES J. BARTON.
CLARENCE T. FERNALD.

ALDERMEN-AT-LARGE.

FOR ONE YEAR.

CURTIS C. GOSS.

EUGENE H. MOORE.

WILLIAM A. CARRIE.

WARD ALDERMEN.

Ward 1.	ARTHUR H. FOLGER.	CHARLES E. FRENCH.
Ward 2.	ALBERT A. DAY.	GEORGE E. GILCHRIST.
Ward 3.	FRANK W. FOSTER.	GEORGE R. JONES.
Ward 4.	FRANK H. DAMON.	JOHN G. ROBINSON.
Ward 5.	FRED E. EVERETT.	EDWIN S. SMALL.
Ward 6.	GEORGE E. BERRY.	AARON HILL, JR.
Ward 7.	ANDREW J. BURNETT.	JOHN E. MARSHALL.

CLERK OF THE BOARD.

W. DEHAVEN JONES, City Clerk.

Regular meetings the first and third Mondays in each month, at 7.45 o'clock p. m.

Standing Committees of the Board or Aldermen.

Accounts and Surety Bonds.

Aldermen DAMON, CARRIE, ROBINSON, FRENCH and DAY.

Claims.

Aldermen CARRIE, MOORE, BARTON, SMALL and MARSHALL.

Elections and Returns, Printing and Supplies.

Aldermen FOLGER, BERRY, ROBINSON, EVERETT and GILCHRIST.

Finance.

Aldermen HOWES, MARSHALL, BARTON, SMALL, SHEPARD,
GILCHRIST and HILL.

Fire Department, Electric and Telephone Wires.

Aldermen MOORE, FRENCH, BURNETT, EVERETT and FOSTER.

Highways, Sewers, Water and Public Grounds.

Aldermen FERNALD, GOSS, MOORE, FOLGER, FOSTER, EVERETT,
and BURNETT.

Nominations and Resolutions.

Aldermen ROBINSON, BERRY, DAMON, DAY and MOORE.

Ordinances, Rules, Orders, and Legislative Matters.

THE PRESIDENT, Aldermen ROBINSON, GOSS, DAY and BERRY.

Police Department and Licenses.

Aldermen BARTON, CARRIE, HILL, EVERETT and DAMON.

Public Buildings.

Aldermen FOSTER, HILL, FOLGER, BARTON and MARSHALL.

Public Charities.

Aldermen GOSS, MARSHALL and DAY.

Public Health.

Aldermen HILL, FRENCH and BURNETT.

Public Instruction.

Aldermen GILCHRIST, FRENCH and SMALL.

Special Committee on Settlement with Metropolitan Water Board.

Aldermen GOSS, HOWES, MOORE, CARRIE and THE PRESIDENT.

State and Military Aid, and Soldiers' Relief.

Aldermen MARSHALL, DAY and GOSS.

Street Railways and Public Lighting.

Aldermen SHEPARD, GILCHRIST, ROBINSON, BURNETT and BERRY.

CITY OFFICERS.

City Clerk.

W. DeHAVEN JONES.

City Treasurer.

JOHN LARRABEE. Resigned. (Elected Mayor.)
W. R. LAVENDER. (Elected to fill vacancy.)

City Collector.

JAMES W. MURRAY.

City Auditor.

EDWIN C. GOULD.

Engineer and Superintendent of Public Works.

W. DABNEY HUNTER.

Mayor's Clerk.

W. DABNEY HUNTER.

City Solicitor.

FRANK L. WASHBURN

Chief of Fire Department.

A. WILBUR LYNDE.

Chief of Police.

FRANK M. McLAUGHLIN.

Inspector of Buildings.

W. AUGUSTUS GOODNO.

Inspector of Plumbing.

JOHN T. BARKER.

Inspector of Milk and Vinegar.

WILLIAM S. BRIRY.

Inspector of Animals, Provisions and Food Products.

FRANK H. STURGES.

Sealer of Weights and Measures.

WILLIAM L. PIERCE.

Agent State and Military Aid and Soldiers' Relief.

SIDNEY H. BUTTRICK.

Burial Agent.

GILBERT N. HARRIS.

Assessors.

FRANK R. UPHAM, Chairman.
JOSEPH EDWARDS.

HENRY A. LEONARD.
JOHN CROLLY, Clerk.

Board of Health.

CLARENCE P. HOLDEN, Chairman.
WILLIAM H. DOLE.

PAUL H. PROVANDIE.

Overseers of the Poor.

SIDNEY H. BUTTRICK, Chairman.
ALBERT B. FRANKLIN.

MATILDA E. STANTIAL.

CITY OFFICERS.

Matron Pratt Farm.

MRS. CHRISTIE CHANDLER.

School Committee.

THREE YEARS.

JOHN C. MAKER,	.	.	.	.	.	.	Term expires	1903
ARTHUR F. AMADON,	.	.	.	.	.	.	" "	1903
SUSAN F. FLANDERS,	.	.	.	.	.	.	" "	1903
GEORGE H. HILL, elected to fill vacancy caused by death of								
John C. Maker,	.	.	.	.	.	.	" "	1903

TWO YEARS.

SARAH A. DAY,	.	.	.	.	.	.	Team expires	1902
D. EUGENE CURTIS,	.	.	.	.	.	.	" "	1902
WILLIAM D. STEWART,	.	.	.	.	.	.	" "	1902

ONE YEAR.

BESSIE B. DEARBORN,	.	.	.	.	.	.	Term expires	1901
EDWARD B. MARSH,	.	.	.	.	.	.	" "	1901
FRED L. WOOD,	.	.	.	.	.	.	" "	1901

Sinking Fund Commissioners.

ROYAL P. BARRY,	.	.	.	.	.	.	Term expires	1903
JOHN W. FARWELL,	.	.	.	.	.	.	" "	1902
DANIEL RUSSELL,	.	.	.	.	.	.	" "	1901

Trustees of the Public Library.

ELBRIDGE H. GOSS,	.	.	.	.	.	.	Term expires	1903
CHARLES C. BARRY,	.	.	.	.	.	.	" "	1903
CHARLES A. PATCH,	.	.	.	.	.	.	" "	1902
RUBY F. FARWELL,	.	.	.	.	.	.	" "	1902
MARIA L. CHAPIN,	.	.	.	.	.	.	" "	1901
NEIL A. DIVVER,	.	.	.	.	.	.	" "	1901

Cemetery Committee.

JOHN LARRABEE.	JULIAN C. WOODMAN.	JOHN P. DEERING.
Clerk, EDWIN C. GOULD.	Superintendent of Cemetery, R. A. LEAVITT.	

Registrars of Voters.

VICTOR C. KIRMES, Chairman,	.	.	.	.	.	.	Term expires	1902
*CHARLES W. COCHRANE,	.	.	.	.	.	.	" "	1903
†EDGAR R. SOMES,	.	.	.	.	.	.	" "	1901
HERBERT A. MARSH, elected to fill vacancy,	.	.	.	.	.	.	" "	1903
EDWIN L. CRAGIN, elected to fill vacancy,	.	.	.	.	.	.	" "	1901

W. DEHAVEN JONES, City Clerk, ex officio.

*Deceased. †Resigned.

Engineers of Fire Department.

A. WILBUR LYNDE, Chief.

JOSEPH M. HOLBROOK.

SAMUEL LEAR, Clerk.

Measurers of Wood and Bark, Weighers of Hay and Coal.

SETH E. BENSON.	GEORGE GOODWIN.	CHARLES B. GOSS.
FRED H. GOSS.	FRANK E. NEWELL.	CHARLES L. WALKER.
OTIS W. PIERCE.	WILLIAM L. PIERCE.	GEORGE M. HALL.

Fence Viewer.

WALTER C. STEVENS.

Field Drivers.

FRANK A. VINTON.

A. J. BONETT.

Pound Keeper.

A. J. BONETT.

Police Officers.

PERMANENT FORCE,

FRANK M. McLAUGHLIN, Chief.

OSBORN E. DROWN.

WILLIAM A. CASWELL.

REDFORD M. RAND.

CHARLES F. W. FOGG. (Resigned)

CHRISTOPHER B. THOMPSON.

GEORGE E. FULLER.

HARRY BROWN.

ALLSTON H. PINEO.

WILLIAM H. DOHERTY.

WILLIAM C. McCARTHY.

LOUIS B. HEATON.

SPECIAL OFFICERS.

EDGAR E. SHERBURNE.

A. WILBUR LYNDE.

CHARLES J. WING.

JAMES DAVIDSON.

ARTHUR L. BRIGHAM.

HARRY S. PALMENTER.

JOHN J. HINDS.

CONSTABLES.

GEORE W. BURKE.

FRANK M. McLAUGHLIN.

WILLIAM L. PIERCE.

OSBORN E. DROWN.

Bail Commissioner.

SIDNEY H. BUTTRICK.

ELECTION OFFICERS.

Ward 1.

HARRY A. BATCHELDER, Warden.	CHAS. A. YOUNG, Dept. Warden.
CORYDON W. HARLOW, Clerk.	JOHN W. NOWELL, Dept. Clerk.
D. FRANK STEARNS, Inspector.	FRANK G. KELLOGG, Dept. Inspector.
WILLIAM H. GREENLEAF, Inspector.	SIMEON CRAGIN, JR., Dept. Inspector.
CHARLES N. FOWLER, Inspector.	CHARLES F. GOURLEY, Dept. Insp.
MICHAEL D. REARDON, Inspector.	ROBERT H. CURRY, Dept. Inspector.

Ward 2.

ORANGE H. COOK, Warden.	CALVIN W. SAWYER, Dept. Warden.
AUBREY W. DUNTON, Clerk.	SAMUEL LEAR, Dept. Clerk.
JOSEPH H. ESCHBACH, Inspector.	FRANK E. MORTON, Dept. Inspector.
GEORGE C. BUCKNAM, Inspector.	NEIL A. DIVER, Dept. Inspector.
GEORGE W. BURKE, Inspector.	JAMES L. RILEY, Dept. Inspector.
FRANK L. TERWILLIGER, Inspector.	GEORGE W. STINSON, Dept. Insp.

Ward 3.

FRANK TOWLE, Warden.	F. P. BOWDEN, Dept. Warden.
OTIS W. PIERCE, Clerk.	CHARLES H. KING, Dept. Clerk.
PETER J. CURRAN, Inspector.	EVERETT E. TARBOX, Dept. Insp.
GEORGE F. WOODMAN, Inspector.	GEORGE W. VAN HORN, Dept. Insp.
JOHN J. KEATING, Inspector.	CHASE C. WORTHEN, Dept. Inspector.
STEPHEN A. LOVEJOY, Inspector.	JOHN R. PIKE, Dept. Inspector.

Ward 4.

JABEZ S. DYER, Warden.	FRANK W. LYNDE, Dept. Warden.
CLARENCE P. HOLDEN, Clerk.	GEORGE E. HYDE, Dept. Clerk.
GEORGE E. BABSON, Inspector.	BENJAMIN L. HEATH, Dept. Insp.
CURTIS S. GORDON, Inspector.	CHAS. GARDNER BARRY, Dept. Insp.
WILLIAM P. LIBBY, Inspector.	H. RUSSELL SAWTELL, Dept. Insp.
WILLIAM E. WATERHOUSE, Insp.	EDWARD E. BABB, Dept. Inspector.

Ward 5.

WALTER J. SKINNER, Warden.	JOHN M. HAMLIN, Dept. Warden.
GEORGE H. DEARBORN, Clerk.	EUGENE A. SNOW, Dept. Clerk.
OTIS K. PHINNEY, Inspector.	SAMUEL DEARBORN, Dept. Inspector.
THOMAS J. HAWKES, Inspector.	FRANCIS H. MERRILL, JR., Dept. Insp.
FRED L. PUTNAM, Inspector.	MERTON G. WOODBURY, Dept. Insp.
CARL C. CRANE, Inspector.	CHARLES G. SCHAEDEL, Dept. Insp.

Ward 6.

CHARLES N. SHUTE, Warden.	MELVILLE D. VAUGHN, Dept. Warden.
PETER J. LYNCH, Clerk.	WILLIAM J. DUFFY, Dept. Clerk.
HARRY M. EASTMAN, Inspector.	WILLIAM F. RUSSELL, Dept. Insp.
STEPHEN C. DEERING, Inspector.	JONATHAN H. ATKINSON, Dept. Insp.
GEORGE H. TOWNE, Inspector.	E. W. LEWIS, Dept. Inspector.
THOMAS D. BAYNE, Inspector.	GEO. B. GROTTENDICK, Dept. Insp.

Ward 7.

CLARENCE T. ABBOTT, Warden.	ALBERT E. DADLEY, Dept. Warden.
JOHN J. McCULLOUGH, Clerk.	JOHN J. BUCKLEY, Dept. Clerk.
W. A. T. NORRIS, Inspector.	HERBERT H. SLOCUM, Dept. Insp.
HENRY E. JOHNSON, Inspector.	JOHN C. FLATLEY, Dept. Inspector.
GEORGE A. BAILEY, Inspector.	JAMES R. DONAHER, Dept. Inspector.
WILLIAM CORNER, Inspector.	EDMUND FAHY, Dept. Inspector.

ANNUAL REPORT

OF THE

SCHOOL COMMITTEE

OF THE

CITY OF MELROSE

FOR THE

YEAR ENDING JANUARY 31, 1901.

MELROSE :
A. W. DUNTON & CO., PRINTERS, REPORTER OFFICE.
1901.

SCHOOL CALENDAR FOR 1901.

Dates in Italics are Vacations and Holidays.

January.							February.							March.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	..	..	1	2	..	..	..	..	..	1	2
6	7	8	9	10	11	12	3	4	5	6	7	8	9	3	4	5	6	7	8	9
13	14	15	16	17	18	19	10	11	12	13	14	15	16	10	11	12	13	14	15	16
20	21	22	23	24	25	26	17	18	19	20	21	22	23	17	18	19	20	21	22	23
27	28	29	30	31	..	..	24	25	26	27	28	..	..	24	25	26	27	28	29	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	..	..	..	..	..	..

April.							May.							June.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	1	2	3	4	..	..	..	..	..	..	1
7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
14	15	16	17	18	19	20	12	13	14	15	16	17	18	9	10	11	12	13	14	15
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	19	20	21	22
28	29	30	..	..	..	..	26	27	28	29	30	31	..	23	24	25	26	27	28	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	..	..	..	..	..	..

July.							August.							September.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	1	2	3	4	5	6	..	..	..	..	1	2	3	1	2	3	4	5	6	7
7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
21	22	23	24	25	26	27	18	19	20	21	22	23	24	22	23	24	25	26	27	28
28	29	30	31	..	..	..	25	26	27	28	29	30	31	29	30	..	..	..	..	..
..

October.							November.							December.						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
..	..	1	2	3	4	5	..	..	..	..	..	1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31	..	..	24	25	26	27	28	29	30	29	30	31	..	..	..	..

SCHOOL COMMITTEE FOR 1900.

MEMBERS.

*John C. Maker, 2 Mt. Vernon avenue,.....	Term expires	1903
A. F. Amadon, M. D., 9 Vine street,.....	" "	1903
Susan F. Flanders, 22 Hillside avenue,.....	" "	1903
William D. Stewart, 21 Woodland avenue,.....	" "	1902
Don E. Curtis, 129 Bellevue avenue,	" "	1902
Sarah A. Day, 45 Ashland street,	" "	1902
Edward B. Marsh, 109 Meridian street,.....	" "	1901
Fred L. Wood, 89 East Foster street,	" "	1901
Bessie B. Dearborn, 315 Main street,.....	" "	1901

*June 19, Capt. Maker died, and July 2, at a joint meeting of the Board of Aldermen and the School Committee, George H. Hill, 16 Summer street, was chosen to fill the vacancy.

ORGANIZATION.

John C. Maker, till June 19,.....	Chairman.
William D. Stewart, from July 2.....	Chairman.
A. F. Amadon, M. D.,	Secretary.

MEETINGS.

Regular meetings of the school committee are held in the committee room, high school building, on the second and fourth Tuesdays of every month, excepting July and August, at 8 o'clock p. m.

SUPERINTENDENT OF SCHOOLS.

FRED H. NICKERSON.

Office: High school building.

Residence: 492 Lebanon street.

Office hours: 8 to 9 a. m., on all school days, and 4 to 5 p. m., Monday, Tuesday, Thursday and Friday.

Telephone: 94-2 Melrose.

Superintendent's Clerk, Helen L. Burr,.....119 Wyoming avenue.

SUB-COMMITTEES.

Accounts, Finance, and Estimates.

Mr. Maker,	Mrs. Flanders,	Mr. Curtis.
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Course of Study and Text-Books.

Mrs. Dearborn,	Mr. Marsh,	Mrs. Flanders.
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Supplies and Printing.

Mr. Stewart,	Mr. Maker,	Mrs. Flanders.
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Special Studies.

Mr. Curtis,	Mrs. Day,	Mrs. Dearborn.
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Rules and Regulations.

Mr. Marsh,	Mr. Wood,	Mrs. Day.
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School Houses and Janitors.

Dr. Amadon,	Mr. Stewart,	Mr. Maker.
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Teachers and Salaries

Mrs. Flanders,	Dr. Amadon,	Mr. Wood.
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Kindergartens.

Mr. Wood,	Mrs. Dearborn.	Mr. Marsh.
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High School.

Mrs. Day,	Mr. Curtis,	Dr. Amadon.
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Visiting Committees.

HIGHLANDS.

Mr. Stewart,	Mrs. Day,	Mr. Curtis.
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EAST SIDE.

Mr. Marsh,	Mr. Wood,	Mrs. Flanders.
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CENTRE.

Mrs. Flanders,	Mr. Maker,	Mrs. Day.
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WYOMING.

Dr. Amadon,	Mrs. Dearborn,	Mr. Wood.
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NOTE:—At a meeting of the school committee September 11, Mr. Stewart was changed from the chairmanship of the Committee on Supplies and Printing to the chairmanship of the Committee on Accounts; Mr. Wood from the chairmanship of Committee on Kindergartens to chairmanship of Committee on Supplies; Mrs. Dearborn was made chairman of the Committee on Kindergartens; and Mr. Hill was placed on Committee on Supplies, the Committee on School Houses, the Committee on Kindergartens, and the Centre Visiting Committee. These changes were occasioned by the death of Capt. Maker.

In Memoriam.

JOHN CROSBY MAKER,

FOR NINE AND ONE-HALF YEARS

A MEMBER OF THE SCHOOL COMMITTEE IN MELROSE,
MASS.

Born in Brewster, Mass., December 2, 1837.

Died in Melrose, Mass., June 19, 1900.

RESOLUTIONS ADOPTED BY THE SCHOOL COMMITTEE, JUNE 20, 1900.

John C. Maker, Chairman of the School Committee of Melrose, passed into rest Tuesday morning, June 19.

By his death the members of the School Committee have lost a loved and honored friend and brother, the city a true and loyal servant and the schools a devoted and earnest leader.

Since his first election to the School Committee in 1888, he has given freely of time and effort in behalf of the public schools, and much of their present excellence is due to his wise and thoughtful care and personal effort.

Of a careful and conservative nature, he proved a wise leader and counselor, and those who were brought into contact with him learned to love and honor him for his kindness, courtesy and wisdom.

We who have been associated with him in school work have come to appreciate him for his courteous manliness, his genial temperament and his warm heart.

The school children will not soon forget his kindly "Good morning, children," with which he was accustomed to greet them in the school room. It seemed to soften and sweeten the whole day's work.

The School Committee wish to extend to the family of Mr. Maker their warmest sympathy in their great loss, and to assure them their sorrow is shared by us all.

In Memoriam.

FRANK LOCKE TITCOMB,

FOR THREE AND ONE-HALF YEARS

PRINCIPAL OF THE FRANKLIN SCHOOL IN MELROSE,
MASS.

Born in Providence, R. I., October 28, 1862.

Died in Melrose, Mass., January 19, 1901.

RESOLUTIONS ADOPTED BY THE SCHOOL COMMITTEE.

WHEREAS, It has pleased our Heavenly Father to remove from his earthly labors Mr. Frank L. Titcomb,

Resolved, That his death is a serious loss to the city and one that is keenly felt by all connected with the School Department.

Resolved, That, by his quiet manliness, his courteous bearing, his ripe scholarship, his devotion to the interests of his pupils, and his high professional ideals, he won the respect and confidence of all with whom he came in contact.

Resolved, That these resolutions be spread upon the records of the School Committee and published in the Annual School Report.

REPORT OF THE SUPERINTENDENT OF SCHOOLS.

To the School Committee of Melrose:

LADIES AND GENTLEMEN:—The following annual report concerning the public schools of Melrose is submitted for your consideration. Bearing in mind that the Superintendent's report is usually adopted as the report of the Committee to the citizens, and that the average tax-payer is principally interested to know—and properly so—whether or not the community is getting from the schools an equivalent for the expenditure necessary for their maintenance, I have confined myself principally to the presentation and discussion of such facts regarding the administration and work of the school system as may enable our citizens to pass intelligent judgment upon its efficiency, dealing with theories of education only so far as their discussion may contribute to the main purpose as above stated.

STATISTICAL TABLES.

TABLE I.
REGARDING SCHOOL HOUSES AND SCHOOL LOTS.

SCHOOL HOUSES.						SCHOOL LOTS.		
NAME.	LOCATION.	No. School Rooms.	No. of Rooms in use Dec. 1900.	No. of Rooms not in use Dec. 1900	Estimated Value.	Size in Sq. Feet.	Estimated Value.	Combined Value of Houses and Lots.
High.....	Main St	16	14*	2†	\$100,000	116,385	\$29,925	\$129,925
Franklin	Franklin St.....	8	8*	0	30,000	21,752	5,450	35,450
Washington	Lebanon St.....	8	8*	0	30,000	30,794	4,000	34,000
Horace Mann.....	Grove St	8	8	0	20,000	26,361	4,475	24,475
D. W. Gooch	Foster St.....	8	8	0	25,000	27,815	4,175	29,175
Lincoln	Wyoming Ave....	8	8*	0	30,000	27,604	4,975	34,975
Mary A. Livermore..	Main St	4	4	0	12,000	26,555	4,800	16,800
Warren	Warren St.....	4	4	0	16,000	18,575	2,000	18,000
Winthrop	Eleventh St	4	4	0	11,000	26,544	1,325	12,325
Sewall	Upham St.....	4	4	0	10,000	14,748	5,150	15,150
Whittier ..	Franklin St....	4	3	1	8,000	15,000	1,800	9,800
Converse	Fells	2	1	1	5,000	21,017	1,050	6,050
Ripley	Swains Pond Ave.	1	1	0	2,200	14,567	425	2,625
West Side.....	Franklin St.....	1	0	1	1,000	11,880	1,900	2,900
Totals		80	75	5	\$300,200		\$71,450	\$371,650

*These buildings contain an assembly hall in addition to the rooms specified.

†One of these rooms is used temporarily by the School Committee.

TABLE II.

NUMBER OF TEACHERS IN THE DIFFERENT DEPARTMENTS, DEC. 1900.

	High gr. x-xi-xii xiii	Grammar gr. v-vi-vii-viii-ix	Primary gr. i-ii-iii-iv	Kindergarten	SPECIAL TEACHERS			Totals.
					Music.	Drawing.	Phys. Cult.	
Males	5	4	0	0	1	1	0	11
Females	7	26	33	7	0	0	1	74
Totals.....	12	30	33	7	1	1	1	85

COMMENT ON TABLE II.

Comparison of the above table with a similar table in the report for 1899 reveals a net increase during 1900 of one in the number of teachers employed. This is due to the addition of two teachers in the elementary grades,—one for an additional kindergarten established at the Washington School in September and one for an additional fourth grade at the Lincoln School,—and to the abolition of the position of supervisor of penmanship at the close of the term in June. In justice to Mr. Clark, who had held this position for the past three years, it should be said that the action of the committee in this respect is not to be construed as, in any way, a reflection upon his efficiency. On the other hand, it is the unanimous feeling that he was highly successful in his department and, in every way, a desirable man to have in a corps of teachers.

The action of the committee in abolishing the above position was due to the necessity for rigid economy in school expenditure and to the fact that it was felt that, after three years of careful training in teaching the new system of penmanship, teachers ought to be able to secure reasonably satisfactory results in this line without special supervision.

TABLE III.

NUMBER OF PUPILS IN DIFFERENT GRADES, DEC., 1900

SCHOOLS.	Kindergarten	Grade I	Grade II	Grade III	Grade IV	Grade V	Grade VI	Grade VII	Grade VIII	Grade IX	HIGH SCHOOL.					Totals
											Grade X.	Grade XI.	Grade XII.	Grade XIII.	Post-graduate	
High .....	...	...	...	...	...	...	...	...	...	...	116	61	50	40	9	276
Franklin .....	...	...	...	50	50	52	64	48	39	41	...	...	...	...	...	344
Washington	33	38	30	41	49	49	43	...	...	52	...	...	...	...	...	335
Horace Mann .....	...	37	32	40	46	35	32	48	51	...	...	...	...	...	...	321
D. W. Gooch .....	...	30	27	26	34	30	28	64	...	...	...	...	...	...	...	274
Lincoln	25	36	23	40	36	34	42	44	...	46	...	...	...	...	...	326
Mary A. Livermore ..	...	...	...	...	...	43	44	47	48	...	...	...	...	...	...	182
Warren .....	...	36	44	33	24	22	...	...	...	...	...	...	...	...	...	157
Winthrop .....	...	27	15	32	30	...	...	...	...	...	...	...	...	...	...	104
Sewall	36	39	25	23	40	...	...	...	...	...	...	...	...	...	...	163
Whittier	38	46	50	...	...	...	...	...	...	...	...	...	...	...	...	134
Converse .....	...	18	9	12	...	...	...	...	...	...	...	...	...	...	...	39
Ripley .....	...	9	13	9	...	...	...	...	...	...	...	...	...	...	...	31
Total, Dec. 1900	132	316	268	304	309	270	255	215	202	139	116	61	50	40	9	2,686
Total, Dec. 1899	140	316	320	289	277	265	242	213	158	122	88	59	47	46	7	2,589

COMMENTS ON TABLE III.

The following are some of the more interesting facts revealed by the foregoing table :

(1) The registration in the kindergarten department in December, 1900, was 8 less than a year previous. This slight decrease is due, probably, to the fact that at the beginning of the term in September, 1900, the minimum age of admission to the kindergarten was changed from $3\frac{1}{2}$ to 4 years.

(2) With the exception of grade one, which remains the same, grade two, which shows a loss of 52, and the senior class in the high school, which shows a loss of 6, the regis-

tration of every grade shows an increase, so that the total number of pupils connected with the schools in December, 1900, was 97 more than were registered in December, 1899.

(3) It will be observed that the largest gains are in grades eight, nine and ten (the first year in high school). Grade eight has gained during the year 28% ; grade nine, 14% ; and grade ten, 32%. These increases should be carefully noted by any one who wishes to form a fair judgment either of the efficiency or of the cost of the school system. On the one hand, gains in these upper grades indicate an increased appreciation of the advantages offered by the schools which leads pupils to remain in them longer than formerly ; on the other hand, taking into consideration that the cost of educating a pupil in the upper grades is necessarily greater than in the lower grades, it is easy to see that such gains would tend inevitably to increase the average per capita cost in the schools.

TABLE IV.

AVERAGE NUMBER OF PUPILS PER TEACHER IN THE AVERAGE MEMBERSHIP OF THE SCHOOLS.

Kinder- garten	Grade I	Grade II	Grade III	Grade IV	Grade V	Grade VI	Grade VII	Grade VIII	Grade IX	High	Summary for all grades
19	36	33	34	35	39	39	42	26	20	20	31

TABLE V.

AVERAGE AGE OF PUPILS IN RESPECTIVE GRADES SEPTEMBER, 1900.

The large figures indicate the years and the small figures the months.

SCHOOLS.	Kinder- garten.	PRIMARY.				GRAMMAR.					HIGH.			
		GRADES.				GRADES.					GRADES.			
		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
High .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15. ⁷	16. ⁶	17. ²	18. ²
Franklin .....	.....	.....	.....	8. ⁴	9. ⁸	10. ³	11. ⁷	13	14. ²	14. ⁹	.....	.....	.....	.....
Washington	4. ⁶	5. ¹⁰	7. ⁵	8. ²	9. ⁴	11. ³	11. ⁹	.....	.....	14. ¹¹	.....	.....	.....	.....
Lincoln	4. ⁵	5. ¹¹	7	8. ⁶	9. ⁴	10. ⁹	11. ⁷	12. ⁷	.....	14. ¹¹	.....	.....	.....	.....
D. W. Gooch .....	.....	5. ⁹	7. ¹	8. ²	9. ⁷	10. ⁸	11. ¹¹	12. ⁸	13. ¹⁰	.....	.....	.....	.....	.....
Horace Mann .....	.....	6. ³	7. ¹	8. ⁸	9. ⁷	11. ⁴	12. ⁵	13. ²	13. ¹⁰	.....	.....	.....	.....	.....
Livermore .....	.....	.....	.....	.....	.....	10. ⁹	11. ⁷	12. ³	13. ¹¹	.....	.....	.....	.....	.....
Warren .....	.....	5. ¹¹	7. ⁸	8. ⁴	9. ⁸	11. ²	.....	.....	.....	.....	.....	.....	.....	.....
Winthrop .....	.....	5. ¹⁰	7. ⁵	8. ⁸	9. ⁵	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sewall	4. ⁴	5. ⁹	7	7. ¹¹	8. ¹⁰	.....	.....	.....	.....	.....	.....	.....	.....	.....
Whittier	4. ⁷	5. ⁷	7. ¹	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Converse .....	.....	6. ¹⁰	6. ⁴	7. ¹⁰	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ripley .....	.....	6	8. ²	8. ⁹	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Throughout the city, Sept. 1900..	4. ⁶	6	7. ³	8. ²	9. ⁵	10. ¹¹	11. ¹⁰	12. ⁹	13. ¹¹	14. ¹⁰	15. ⁷	16. ⁶	17. ²	18. ²
Throughout the city, Sept. 1899..	4. ⁵	6	7. ³	8. ⁹	10	11	12. ¹	12. ¹¹	14	14. ¹¹	15. ⁸	16. ³	17. ²	17. ⁶

COMMENT ON TABLE V.

Comparing the average ages of pupils in the respective grades in September, 1900, with the average ages in the corresponding grades in September, 1899, it appears (1) that, in the kindergarten grade, the average age has increased one month during the year, a fact easily accounted for by the change to which I have already referred in the age of admission to this grade; (2) that the averages in grades one and two remain the same, and (3) that every grade from the third to the tenth inclusive shows a decrease in the average age of the pupils. This evident tendency toward a lower average age throughout the grades is grati-

fying to one who feels that the age at which pupils have graduated from our schools has been, as a rule, too high; and it may be fairly attributed (a) to the better teaching which, I believe, is being done in the schools today, and (b) to a more careful supervision of promotions.

At the present time, instead of making the promotion of a pupil depend primarily upon his demonstrated ability to secure a certain average rank set arbitrarily by school authorities as the standard of fitness for the next higher grade, the principal consideration affecting his progress through the grades is whether or not, in the judgment of the teacher, principal and superintendent, it is for his highest good to be advanced, in view of all considerations affecting his case. This plan has been in force for the past two years, and I am satisfied, not only that the efficiency of the schools has not suffered thereby, but, as I have suggested, that it has lowered the average age of pupils in the various grades,—a result that, on the whole, I consider a distinct gain.

TABLE VI. ATTENDANCE EXHIBIT FOR 1900.

SCHOOLS.	No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Per cent. of Attendance.	Half days Absence.	Cases of Tardiness.
HIGH	266	117	149	250.26	239.56	95.72	3,892	156
WASHINGTON.								
Grade IX	37	24	13	42.18	40.80	96.73	533	75
Grade VI	46	23	23	42.46	39.80	93.74	1,023	101
Grade V	47	25	22	46.58	42.94	92.19	1,055	75
Grade IV	42	18	24	42.06	39.44	93.77	894	58
Grade III	36	16	20	37.75	36.11	95.66	670	81
Grade II, Kindergarten	56	29	27	28.01	25.77	92.00	746	121
Grade II	36	15	21	30.03	28.72	95.64	490	108
Grade I	76	47	29	56.45	33.17	91.00	1,200	102
Summary for Washington School.....	376	197	179	305.52	286.75	93.86	6,611	721
FRANKLIN.								
Grade IX	41	20	21	38.34	36.39	94.91	719	56
Grade VIII	42	18	24	38.04	35.43	93.14	974	84
Grade VII	52	24	28	47.70	44.23	92.73	1,285	84
Grade VI	53	22	31	42.10	38.83	92.23	1,212	152
Grade V	49	28	21	46.82	43.11	92.08	1,355	136
Grades IV, V, VI	48	23	25	36.79	34.32	93.29	979	120
Grade IV	43	11	32	43.60	40.53	92.96	1,129	91
Grade III	49	25	24	44.03	41.52	94.30	892	51
Summary for Franklin School	377	171	206	337.42	314.36	93.23	8,545	774

LINCOLN.

Grade IX	51	15	36	46.94	45.03	95.93	699	79
Grade VII	38	21	17	37.54	34.46	91.80	840	58
Grade VI	40	19	21	36.86	34.47	93.51	885	46
Grade V	41	19	22	33.82	31.83	94.12	757	48
Grade IV	7	5	2	14.40	13.82	95.97	222	3
Grades III, IV	54	29	25	45.23	42.27	93.46	1,257	85
Grades II, I	88	45	43	49.13	44.55	90.68	1,674	37
Kindergarten	51	27	24	28.18	24.29	86.20	1,444	65
Summary for Lincoln School	370	180	190	292.10	270.72	92.68	7,778	421

D. W. GOOCH.

Grade VIII	44	24	20	42.85	41.38	96.57	522	34
Grades VII, VIII	39	19	20	38.47	36.69	95.37	642	27
Grade VI	31	17	14	27.62	26.44	95.73	384	23
Grade V	43	23	20	33.09	31.57	95.41	554	55
Grade IV	43	26	17	35.99	34.46	95.75	580	48
Grade III	36	19	17	29.90	28.55	95.48	497	25
Grade II	39	26	13	30.00	28.71	95.70	528	41
Grade I	71	38	33	33.13	30.96	90.43	816	60
Summary for D. W. Gooch School	346	192	154	271.05	258.76	95.47	4,523	313

HORACE MANN.

Grade VIII	40	24	16	42.02	40.91	97.36	404	72
Grade VII	52	24	28	48.01	45.07	93.83	1,073	273
Grade VI	39	18	21	33.59	32.76	97.53	339	110
Grade V	38	24	14	34.26	33.29	97.17	339	125
Grade IV	37	20	17	35.22	33.69	95.65	587	120
Grade III	42	19	23	39.47	37.55	95.14	672	145
Grade II	43	24	19	33.97	31.63	90.17	844	162
Grade I	68	33	35	31.66	29.33	92.64	889	137
Summary for Horace Mann School	359	186	173	298.20	284.23	95.32	5,147	1,144

SCHOOLS.		No. of Different Pupils Enrolled.	No. of Boys.	No. of Girls.	Average Membership.	Average Attendance.	Percent. of Attendance.	Half days Absence.	Cases of Tardiness.
MARY A. LIVERMORE.									
Grade VIII.....		42	22	20	43.08	41.71	96.82	480	25
Grade VII.....		53	24	29	46.92	45.32	96.59	596	18
Grades VII, VI.....		48	25	23	41.94	40.20	95.85	668	30
Grade V.....		42	16	26	38.12	36.69	96.25	517	46
Summary for Livermore School		185	87	98	170.06	163.92	96.39	2,281	119
JOSEPH WARREN.									
Grades V, IV.....		27	14	13	32.75	32.14	98.14	241	11
Grade III.....		32	17	15	29.61	28.81	97.30	338	24
Grade II.....		44	24	20	42.48	40.93	96.35	539	67
Grade I.....		83	46	37	37.17	34.24	92.12	1,060	65
Summary for Warren School		186	101	85	142.01	136.12	95.85	2,238	167
WINTHROP.									
Grade IV.....		36	19	17	30.70	28.78	93.75	709	84
Grade III.....		29	15	14	27.84	25.70	95.91	422	85
Grade II.....		38	17	21	27.93	26.44	94.67	641	114
Grade I.....		56	30	26	27.37	24.71	90.28	770	142
Summary for Winthrop School		159	81	78	113.84	106.63	93.67	2,542	425

SEWALL.									
Grade IV, III.....	43	20	23	40.60	38.24	94.19	869	56	
Grades III, II	44	20	24	43.52	40.63	93.36	1,110	38	
Grade I	82	41	41	36.84	33.48	90.88	1,032	59	
Kindergarten.. ..	86	38	48	43.52	36.58	84.05	1,263	115	
Summary for Sewall School.....	255	119	136	164.48	148.93	90.55	4,274	268	
WHITTIER.									
Grade II	44	23	21	38.74	35.85	92.54	979	98	
Grade I	98	56	42	43.06	40.86	94.82	832	41	
Kindergarten	64	36	28	33.09	28.86	87.22	1,287	113	
Summary for Whittier School.	206	115	91	114.89	105.57	91.89	3,098	252	
CONVERSE.									
Grades IV, III.....	18	10	8	9.06	8.86	97.79	35	21	
Grades III, II, I	49	28	21	31.91	31.16	97.65	304	81	
Summary for Converse School	67	38	29	40.97	40.02	97.68	339	102	
RIPLEY.									
Grades III, II, I	46	23	23	28.34	26.56	93.72	636	140	
West Side Kindergarten.	23	12	11	11.43	9.76	84.51	624	49	
Summary for all schools.....	2,975	1,512	1,463	2,540.57	2,391.89	94.15	525.98	5,051	

TABLE VII.
COMPARATIVE STATISTICS ON ATTENDANCE.

1. AVERAGE MEMBERSHIP.

SCHOOLS.	1897	1898	1899	1900	Gain 1900	Loss 1900
High.....	241.18	220.49	229.19	250.26	21.07	.....
Washington	285.56	356.46	332.89	305.52	.....	27.37
Franklin	313.40	315.52	343.63	337.42	.....	6.21
Lincoln .....	.....	190.79	225.19	292.10	66.91	.....
D. W. Gooch	365.83	327.17	297.49	271.05	.....	26.44
Horace Mann	328.11	300.79	280.26	298.20	17.94	.....
Mary A. Livermore.....	176.52	179.35	174.59	170.06	.....	4.53
Joseph Warren.....	138.39	110.64	126.43	142.01	15.58	.....
Winthrop	150.56	135.34	128.64	113.84	.....	14.80
Sewall	170.45	152.32	160.36	164.48	4.12	.....
Whittier	133.90	115.02	107.60	114.89	7.29	.....
Converse	64.65	50.00	42.96	40.97	.....	1.99
Ripley	37.00	36.42	36.16	28.34	.....	7.82
West Side Kindergarten...	.....	15.84	20.82	11.43	.....	9.39
For all schools	2,505.55	2,506.15	2,506.21	2,540.57	34 36	.....

2. AVERAGE ATTENDANCE.

SCHOOLS.	1897	1898	1899	1900	Gain 1900	Loss 1900
High.....	229.60	212.17	220.73	239.56	18.83	.....
Washington	252.20	330.91	310.12	286.75	.....	23.37
Franklin	292.05	296.78	322.89	314.36	.....	8.53
Lincoln .....	.....	178.41	206.91	270.72	63.81	.....
D. W. Gooch	332.10	307.33	282.44	258.76	.....	23.68
Horace Mann	287.10	284.93	270.55	284.23	13.68	.....
Mary A. Livermore.....	164.70	170.59	168.56	163.92	.....	4.64
Joseph Warren.....	128.75	104.96	120.33	136.12	15.79	.....
Winthrop	130.60	125.52	120.87	106.63	.....	14.24
Sewall	144.50	134.79	144.58	148.93	4.35	.....
Whittier	112.50	104.90	98.46	105.57	7.11	.....
Converse	56.00	47.87	41.76	40.02	.....	1.74
Ripley	30.60	31.16	31.54	26.56	.....	4.98
West Side Kindergarten...	.....	13.59	17.76	9.76	.....	8.00
For all schools.....	2,260.70	2 343.91	2,357.50	2,391.89	34.39	.....

3. PER CENT. OF ATTENDANCE.

SCHOOLS.	1897	1898	1899	1900	Gain 1900	Loss 1900
High.....	95.20	96.22	96.31	95.72	.....	.59
Washington	91.32	92.83	93 16	93.86	.70	.....
Franklin	93.19	94.06	93.96	93.23	.....	.73
Lincoln .....	.....	93.45	91.88	92.68	.80	.....
D. W. Gooch	90.78	93 94	94.94	95 47	.53	.....
Horace Mann	87.50	94.73	96.54	95.32	.....	1.22
Mary A. Livermore.....	93.19	93.17	96.54	96 39	.....	.15
Joseph Warren.....	93.03	94.87	95.18	95.85	.87	.....
Winthrop	86 74	92.74	93.95	93.67	.....	.28
Sewall	84.78	88.46	90.16	90 55	.39	.....
Whittier	83.27	91.20	91.51	91.89	.38	.....
Converse	86.62	95.74	97.21	97 68	.47	.....
Ripley	82.70	85 51	87.22	93.72	6.50	.....
West Side Kindergarten...	.....	94 48	85.31	84.51	.....	.80
For all schools.....	90.23	93.53	94.07	94.15	.08	.....

COMMENT ON TABLE VII.

1. While the above table reveals that the average membership of the schools for 1900 is 34.36 more than in 1899, yet one considering the estimated expenditure for schools for 1901 should bear in mind that the registration in the schools in December 1900 was 97 greater than in December 1899, as shown by Table III, so that any safe estimate of the amount of money needed to run the schools for 1901 must take into consideration that the membership will probably be at least 100 greater than that of the past year.

2. Reference to that part of the above table which deals with percentages of attendance reveals that the rate of attendance for 1897, the year before the present administration began, was nearly 2% below the average for the State. It appears also that, since that year, there has been a steady increase in the regularity of attendance in our schools, until, at present, the rate is a little more than 2% above that for the State. This showing is gratifying, for it is reasonable to believe that this increased regularity in the attendance of pupils is indicative of better results in the school work.

TABLE VIII.

ANNUAL FINANCIAL EXHIBIT FOR 1900.

RECEIPTS.

Special loan to cover expenses for January, 1900	\$6,647.01
Appropriation for 12 months from February 1, 1900, to February 1, 1901	\$77,000.00
Receipts from other sources (tuition, etc.)	1,176.08
	<hr/>
Amount available for 12 months from February 1, 1900, to February 1, 1901	78,176.08
	<hr/>
Amount available for 13 months from January 1, 1900, to February 1, 1901	\$84,823.09

EXPENDITURES.

Expended during Jan., 1900:

Salaries	\$ 5,721.85
Books and Supplies.....	848.21
Miscellaneous	11.48
Repairs.....	45.46
Furniture	20.01
	<hr/>

Total expenditures for January, 1900, \$6,647.01

Expended during 12 months from February, 1, 1900, to Feb. 1, 1901:

Salaries	\$60,141.47
Advertising and Printing.....	361.70
Fuel	7,060.08
Furniture.....	1,036.07
Miscellaneous.....	1,771.87
Repairs.....	2,681.89
Books and Supplies.....	5,123.00
	<hr/>

Total expenditure for 12 months from February 1, 1900, to February 1, 1901 \$78,176.08

Total expenditure for 13 months from January 1, 1900, to February 1, 1901.. \$84,823.09

COMMENT ON TABLE VIII.

The total receipts and expenditures in the foregoing table cover necessarily a period of thirteen months owing to the fact that although the new city government went into effect January 1, 1900, the city's financial year did not begin until February 1, so that it became necessary to make special provision for the January expenses in addition to the appropriation for the twelve months of the regular financial year; but, in using the table for purposes of deduction or comparison, reference must be made to the receipts and expenditures for the twelve months from February 1, 1900, to February 1, 1901.

TABLE IX.
GENERAL STATISTICS.

	1898	1899	1900	Increase in 1900	Decrease in 1900
No. of persons between 5 and 15 years of age residing in town September 1.....	.....	.....	2,066	....	....
No. of persons between 7 and 14 years of age residing in town September 1.....	.....	.....	1,436	....	....
No. of different pupils enrolled in the schools during the year.....	3,043	3,077	2,975	....	102
No. of pupils over fifteen years of age enrolled during the year.	316	335	339	4	....
No. of pupils between five and fifteen years of age enrolled during the year.....	2,482	2,504	2,454	....	50
No. of pupils between seven and fourteen years of age enrolled during the year.....	1,492	1,468	1,495	27	....
No. of pupils under five years of age enrolled during the year.....	245	238	182	....	56
Average membership of schools.....	2,506.15	2,506.21	2,540.57	34.36	
Average attendance of schools.....	2,343.91	2,357.50	2,391.89	24.39	
Average per cent. of attendance	93.53	94.07	94.15	.08	
Cost per pupil for teaching.....	\$17.44	\$19.10	\$20.31	\$1.21	
Cost per pupil for supervision and clerk hire..	.83	.94	.98	.04	
Cost per pupil for books and supplies.....	2.04	2.38	2.02		\$.28
Cost per pupil for janitors	1.98	2.50	2.38		.12
Cost per pupil for fuel	2.39	1.52	2.78	1.26	
Cost per pupil for printing .....	.07	.10	.14	.04	
Cost per pupil for miscellaneous purposes (not including repairs, furniture, and new build- ings) .....	.71	.72	.70		.02
Total cost per pupil excluding repairs, furni- ture and new buildings	25.46	27.18	29.31	2.13	
Cost per pupil for furniture	1.72	.62	.41		.21
Cost per pupil for repairs	1.36	1.15	1.06		.09
Total cost per pupil for all purposes.....	28.54	28.96	30.77	1.81	

N. B. The cost per pupil in the above is based on the average membership of the schools.

TABLE X.

EXHIBIT OF COMPARATIVE COST OF SCHOOLS FOR 1900.

	For Melrose	For the State
TOTAL TAXATION COST OF PUBLIC SCHOOLS.		
1. Average taxation cost for support of schools and buildings for each child in the average membership of the schools.....	\$30.31	\$33.92
	Per cent.	Per cent.
2. Per cent. of total municipal tax expended for support of schools.....	31	23
3. Per cent. of total municipal tax expended for school buildings.....	1½	7
4. Per cent. of total municipal tax expended for schools and buildings combined.....	32½	30
SUPPORT OF SCHOOLS.		
5. Per cent. of total expenditure for school purposes that is devoted to support of schools.....	95	77
6. Per cent. of expenditure for support of schools that is devoted to teachers' wages.....	69	74
7. Per cent. of expenditure for support of schools that is devoted to fuel and care of school premises	17⅔	12
8. Per cent. of expenditure for support of schools that is devoted to text-books and supplies.....	6⅔	6
9. Per cent. of expenditure for support of schools that is devoted to conveyance of pupils.....	⅔	1
10. Per cent. of expenditure for support of schools that is devoted to supervision of schools.....	2⅔	3
11. Per cent. of expenditure for support of schools that is devoted to clerk hire, truant officers and committees.....	½	1
12. Per cent. of expenditure for support of schools that is devoted to sundries.	2⅔	3
SCHOOL BUILDINGS.		
13. Per cent. of total expenditure for public schools that is devoted to school buildings	5	23
14. Per cent. of expenditure for buildings that is devoted to ordinary repairs and permanent improvements.....	100	30
15. Per cent. of expenditure for buildings that is devoted to new buildings.....		70

COMMENT ON TABLE X.

The term "Support of Schools" in this table, as defined by the Legislature of 1900, embraces what is expended (1) for wages of teachers, (2) for fuel and care of school premises, (3) for text-books and supplies, (4) for conveyance of pupils, (5) for superintendents, (6) for school committees, truant-officers, and clerks, (7) for school sundries.

While the limits of this report forbid a complete analysis of the foregoing table, there are a few points that deserve to be noted, both because they are vital in forming a fair judgment in the matter of school expense in Melrose, and because without explanation the full significance of the figures is not apparent.

1. Reference to item 1 reveals that the entire amount raised by taxation and expended for the education of each child in the average membership of the schools in Melrose during the past year is \$3.61 less than the taxation cost for a similar purpose throughout the Commonwealth. While this showing, at first thought, may afford the tax-payer of Melrose a sense of gratification, it is seriously to be questioned whether a relatively low standing in the above mentioned line is, on the whole, an unmixed blessing.

It is hardly within the scope of this report to demonstrate the degree to which the prosperity of a community depends upon the educational advantages offered by its schools; and yet, the following facts are given for the benefit of any one who may wish to reach a conclusion for himself regarding this matter: (a) According to a recent report of Dr. Harris, the United States Commissioner of Education, each child in Massachusetts receives on an average seven years of schooling, while each child in the nation at large receives only four and three-tenths, i. e., *each child in Massachusetts receives*

on an average 63% more schooling than each child in the nation at large.

Now, according to figures compiled by Horace G. Wadlin, Chief of the Massachusetts Labor Bureau of Statistics, the average daily wealth-producing power of each man, woman, and child in Massachusetts is sixty-six cents per working day, while for each man, woman, and child in the nation at large the average production is thirty-seven cents per working day, i. e., *the average wealth-producing power for each man, woman, and child in Massachusetts is 78% greater than a similar average for each man, woman, and child in the nation at large.* This approximate correspondence of the percentages representing the excess in Massachusetts both in length of the schooling period and in wealth-producing power is significant. It is a fair inference, I think, from such figures that the prosperity of a community depends largely upon a reasonably generous expenditure for its schools.

The truth of this conclusion is made more apparent by the following quotation from a paper prepared by Frank A. Hill, Secretary of the State Board of Education for Massachusetts, on "How Far the Public High School is a Just Charge upon the Public Treasury." Discussing the figures to which I have just referred, Mr. Hill says: "Consider for a moment what is involved in the showing that each person in Massachusetts has a daily wealth-producing power twenty-nine cents in excess of the average for the nation at large. It means that for each person in Massachusetts the average annual excess is \$88.74. It means that for all the people of the state the annual excess is \$198,686,802. That is to say, the productive energy of Massachusetts yields nearly \$200,000,000, a year more than it would yield if the per capita productive capacity of the State were no greater

than the average throughout the country. *This is twenty times the annual running expenses of the public schools.* It is not necessary to attribute to the schools all this vast excess of production above the average for the country to prove that they pay enormous material dividends. If so humble a fraction as a *fifth* or even a *tenth* part of this excess, or of an aggregate much less than this excess, of \$200,000,000 can be traced to the schools, they are yet securities that each year return to the state much more than their annual cost."

(b) A second point worth considering in this connection is the opinion of experienced dealers in real estate regarding any effect that first-class educational advantages may have to enhance valuations in a community. To secure such opinion, I recently addressed the following circular letter to a number of the most reliable and conservative real estate men in the "Metropolitan District:"

MELROSE, MASS., February, 1901.

Dear Sir :

It will be of great assistance in an investigation that I am conducting if you will kindly answer the following questions in the blank spaces left after the questions, and return this sheet to me at your earliest opportunity. Permit me to thank you in advance for the trouble this will occasion you.

Yours respectfully,

F. H. NICKERSON,

Superintendent of Schools.

I. Is it your opinion that first-class educational advantages have any effect to increase the readiness with which property rents or sells in a community?

II. If you think they do,

(1) Is it the better or the poorer class of property that is most affected thereby?

(2) Will the resultant increase in valuation compensate in material advantage to the community for the additional expenditure needed to maintain a first-class school system over what is necessary to maintain an inefficient system?

With one exception, answers were received to all the circulars sent and without an exception the opinion expressed was that the enhancement of realty values, selling prices, and rental rates by high grade school advantages in a community fully compensates property holders for any additional taxation necessary for the maintenance of such advantages.

The following two replies, the first from Newton, the second from Malden, are typical of the set. The answers are numbered to correspond with the questions given above.

REPLY NO. 1.

- I. "It is."
- II. (1) "Both better and poorer."
(2) "Decidedly."

REPLY NO. 2.

- I. "It certainly is."
- II. (1) "I think the better class."
(2) "I certainly think it will."

In view of such facts as the foregoing, while it is the duty of every individual concerned with the appropriation of money for the support of schools in Melrose to demand that the community shall receive an equivalent for every dollar that is expended for this purpose, it is worth considering whether or not one who opposes the appropriation and expenditure of any sum of money needed to maintain a first-class school system, judged by the best educational standards of today, is not committing himself to a position of antagonism to the best interests of the city.

II. Reference to item IV of the table under consideration reveals the fact that, although, as is shown in item I, the per capita taxation cost based on the average membership of the schools is less in Melrose than the average for

the State, yet the percent. of the municipal tax that was expended for public school education in the city last year is $2\frac{1}{2}\%$ above the average for the State. The careless observer might easily conclude therefrom that the schools of the city are conducted upon an extravagant basis. However, an understanding of certain conditions relative to our school system will convince, I believe, any candid person that, on the whole, such a conclusion is not justified. There are good reasons why in respect to the item mentioned Melrose should be above the average for the State. Some of those reasons are the following :

(a). As related to the school population of the city, i. e., to the number of children from five to fifteen years of age, the average membership of our schools is unusually large. For instance, if the City of Everett be excepted, no other city in Middlesex County has so large a number of pupils attending school compared to the school population as Melrose. It is easy to see that, other things being equal, this condition tends to make a larger school expenditure relatively than the average, and as a result, to raise the percent. of the municipal tax that otherwise would be expended upon the schools. There are several facts that explain why the average membership of the schools in Melrose is so large compared to the school population. In the first place, we had an average membership in our kindergartens last year of 143 pupils of whom nearly all were under five years of age, while in the majority of places there are no kindergartens. Again, the character of the population in Melrose is such that a larger proportion than the average of those over the compulsory school age remain in our schools for a longer or a shorter period. This is shown by the fact that in Melrose the ratio of high school enrollment to the total school enrollment is 9.4% while the correspond-

ing ratio for the ten largest cities in Massachusetts is 6.7% and for the State at large is 8.3%. Again, Melrose educates practically all her young people in the public schools while in many other places a considerable portion of the school population is taken care of in parochial schools at private expense.

While the above conditions are the cause in part of the expenditure of a slightly larger percent. of our municipal tax for schools than the average for the State, I believe that they are conditions which, on the whole, every citizen who has the highest welfare of Melrose at heart must regard with a degree of satisfaction, for, if they indicate anything, it is that the beneficent influence of education is being more widely diffused throughout our city than would be the case if the relative membership of our schools were less.

(b). Another condition that contributes to increase the total school expenditure in Melrose is the fact that the points at which the membership of the schools is increasing most rapidly are relatively costly. For example, in what may be classed as the primary grades, i. e., the kindergarten and the first four grades, the registration in December, 1900, was 13 less than in December, 1899, while in the grammar grades and the high school the registration in December, 1900, was 110 greater than in December, 1899,—the lowest grade in the high school alone showing an increase of 28 over the previous year's registration.

One at all familiar with the administration of schools knows that it costs considerably more to educate children in the higher than in the lower grades, therefore it is easy to see that increased attendance in the upper grades, especially in the high school, works to increase the total school expenditure and consequently to affect the percent. of the municipal tax devoted to school purposes.

(c). Another fact that has helped to swell the proportion of the municipal tax that has been devoted to the schools during the past year is an abnormally large expenditure for fuel. This is chargeable neither to extravagance nor lack of judgment on the part of the school committee, but to the fact that in accordance with the recommendation of the Town Finance Committee, too small an appropriation for fuel was made by the town in 1899. As a result of this mistaken policy of economy, the school committee found the schools practically without fuel on January 1, 1900, and were obliged to purchase the coal needed to supply the schools from that time until the end of the school year at prices that averaged about one dollar a ton higher than they had been accustomed to pay. Again, the total expenditure for fuel during 1900 has been larger than was needed to supply the schools from January, 1900, to January, 1901, because, when the committee made the contract for the fall supply, it was deemed wise to fill the bins with sufficient fuel not only to last until January, but to carry through as far as possible into the spring months of 1901, in order that the contract for the succeeding year's supply of fuel might be made at a time when prices are relatively low. While this larger expenditure has been made, as I have suggested, in the interest of ultimate economy, it has had the effect to increase temporarily the percent. of municipal tax devoted to the schools.

(d). Still another fact that has an effect to increase the total school expenditure for Melrose is the relatively large percentage of male teachers employed in the school corps. For example, the relative number of male teachers in the corps in Melrose is 5% larger than the average for the ten other cities in Middlesex County, and 4% larger than the average for the State at large. While I believe that this

larger percentage of male teachers in Melrose is an element of strength in our educational system which we can ill afford to lose, yet it makes the expenditure for teachers larger than it would be if our percentage in this respect were down to the State average.

Reference to the following figures will show the ground for this statement :

1900.	Average wages of male teachers.	Average wages of female teachers.	Average wages for all teachers.
State,.....	\$136.54	\$52.50	\$57.40
Melrose,	121.67	52.25	59.87

While the above table shows that the average wages in the case both of male and of female teachers in Melrose is *less* than the corresponding averages for the State, it shows also that the amount paid out monthly for teaching is \$2.47 *more* per teacher on an average than the corresponding average for the State. In round numbers this increase means that it costs us annually for teachers \$2000 more than it would at the present rate of wages if the per cent. of male teachers in our corps were no higher than the average for the State.

During the past ten years the proportion of male to female teachers throughout Massachusetts has shown a slight decrease. In his latest report the Secretary of the State Board of Education calls attention to this fact and makes the following significant comment : "*This is a questionable trend*, not that women do not make excellent teachers, but that the schools cannot afford to dispense so fully with the services of men."

While, as I have shown, the policy of Melrose in this respect involves a slightly larger annual outlay than would be required otherwise, it is gratifying to know that the school administration of the city is in line with the best educational thought regarding a vital need in public school work.

The foregoing facts set forth fairly the principal reasons why Melrose is expending for schools a little more of its municipal tax than the average for the State.

While the other items in table X contain much information that is interesting to one who wishes to study the different lines of school expenditure, I shall refrain from discussing them, inasmuch as the two that have been discussed contain the principal facts of interest to the average taxpayer in his consideration of the relative cost of the schools.

TABLE XI.
CHANGES IN THE TEACHING FORCE DURING 1900.
1.—WITHDRAWALS.

Name of Teacher.	Position Held.	Date of Withdrawal.
Grace J. Aldrich.....	1st grade, Horace Mann.....	..... March 1900
Marion Snow.....	Assistant, Commercial Dept., High.....	..... June 1900
Margaret J. Cockburn.....	4th and 5th grades, Franklin.....	..... June 1900
Carrie D. Peterson.....	5th grade, Lincoln.....	..... June 1900
A. W. Clark.....	Supervisor of Writing.....	..... June 1900
Aimee L. Sears.....	Principal's Asst., Lincoln.....	..... June 1900
Addie E. Wentworth.....	7th grade, Lincoln.....	..... July 1900
M. Agnes Maddock.....	7th grade, D. W. Gooch.....	..... July 1900
Marion P. Goodwin.....	Kindergarten Asst., Whittier.....	..... July 1900
Martha E. Dodge.....	6th grade, Washington.....	..... November 1900
Mabelle S. Merrill.....	3rd grade, Winthrop.....	..... November 1900
Blanche Andrews.....	1st grade, Sewall.....	..... November 1900
Nina A. Duley.....	6th grade, Washington.....	..... December 1900
Inez A. Hunt.....	6th grade, Mary A. Livermore.....	..... January 1901
Hubert G. Shaw.....	Science Dept., High.....	..... January 1901
Mildred A. Wagg.....	Assistant, Warren & Livermore.....	..... February 1901

2.—TRANSFERS.

Name of Teacher.	Position Held.	Position to which Transferred.	Date of Transfer.
Mary J. George.....	Assistant, High.....	Principal's Assistant, Franklin.....	..... June
Mabelle S. Merrill	3rd grade, Washington.....	3rd grade, Winthrop.....	..... June
A. Arline Merrill	2d grade, Washington.....	1st grade, Winthrop.....	..... June
	1st grade, Winthrop.....	1st grade, Sewall.....	.....Jan. 1901
Martha A. Briggs.....	6th grade, Lincoln.....	Principal Sewall.....	..... June
Minnie R. Donaldson....	3rd and 4th grades, Lincoln.....	5th grade, Lincoln.....	..... June
Etta J. Call.....	5th grade, D. W. Gooch.....	5th grade, Washington.....	..... June
Harriet A. Saunders.....	4th grade, D. W. Gooch.....	4th grade, Lincoln.....	..... June
Mary L. Loring.....	3rd grade, Winthrop.....	3rd grade, Washington.....	..... June
Mary R. Clarke.....	Principal, Sewall.....	6th grade, Lincoln.....	..... June
Mary E. Nye.....	Principal, Converse.....	4th grade, D. W. Gooch.....	..... June
Lois M. Holmes.....	5th grade, Washington.....	5th grade, D. W. Gooch.....	..... June
Fanny L. Warren.....	Kindergarten Assistant, Lincoln.....	Kindergarten Assistant, Washington.....	..... Sept.
Mabel Price.....	Principal West Side Kindergarten.....	Assistant, Whittier Kindergarten.....	..... Sept.
Ethel Clark.....	Assistant, Warren & Mary A. Livermore	6th grade, Livermore.....	.....Jan. 1901

3.—NEW TEACHERS.

Name of Teacher.	Position Held.	Position to which elected.	Began Work.
Aimee L. Sears.....	Student, Boston University.....	Principal's Assistant, Lincoln .....	..... Feb.
Annie G. Balch.....	Grade 1, Wakefield.....	1st grade, Horace Mann.....	..... April
Mildred A. Wagg.....	Student, Wellesley.....	Principal's Assistant, Franklin .....	..... April
Margaret McGill.....	Natick High.....	History Dept., High.....	..... Sept.
Helen M. Armstrong.....	.....	Commercial Dept., High.....	..... Sept.
Alice C. Day.....	Student, Salem Normal.....	6th grade, Franklin.....	..... Sept.
Maud E. Brown.....	Private Kindergarten Work	Washington Kindergarten.....	..... Sept.
Annie M. C. Washburn..	Grade 7, Weymouth.....	Principal Assistant, Lincoln.....	..... Sept.
Cora S. Burleigh.....	Farmington, Me., High	7th grade, Lincoln.....	..... Sept.
Lena D. Marshall.....	Student, Salem Normal	2nd and 3rd grades, Lincoln.....	..... Sept.
Mae Goodwin.....	Grade 7, New Bedford.....	7th grade, D. W. Gooch.....	..... Sept.
Mabel Gilbride.....	Trainer	Assistant, Converse.....	..... Sept.
Ethel Clark.....	Assistant, Wakefield.....	Assistant, Warren and Livermore.....	..... Nov.
Nina A. Duley.....	Ungraded School, Winchendon.....	6th grade, Washington.....	..... Nov.
Annie Dinnie.....	Grammar School, Stockton Springs, Me.,	3rd grade, Winthrop.....	..... Dec.
Ethel A. Thomas.....	Science, Amesbury High.....	6th grade, Washington .....	..... Jan. 1901
George A. Hutchins	Grade 5, Wakefield	Science, High.....	..... Jan. 1901
Katherine V. Rowe.....	.....	Assistant, Warren and Livermore... ..	..... Feb. 1901

COMMENT ON TABLE XI.

In addition to the above scheduled changes under the head of withdrawals, the schools have sustained a severe loss in the death of Principal Frank L. Titcomb of the Franklin School who passed to rest January 19, 1901, after an illness of several weeks. Mr. Titcomb had served Melrose faithfully and efficiently for the past three years and his loss is keenly felt by all. Of the other teachers whom we have lost, four left for increased salaries, four to be married, two on account of poor health, two because the positions that they had held were abolished, two because the interests of the schools seemed to require a change, and one to enter business.

Regarding the new teachers who have been employed it may be said that a great deal of care has been taken in making selections, and I feel that, notwithstanding the loss of some very able teachers during the year, the corps of teachers today is, on the whole, stronger than it was a year ago. While this result must be ascribed in part to the efforts put forth by the teachers who have been with us some time to render themselves more efficient, no small part is due to the zeal and efficiency which the new teachers have displayed in their work.

TABLE XII.

PROFESSIONAL TRAINING OF TEACHERS.

1.	Proportion of teachers who are graduates of Normal Schools,	31%
2.	“ “ “ “ have had partial course at Normal Schools,.....	8%
3.	Proportion of teachers who are graduates of College,.....	14%
4.	“ “ “ “ have had partial course in College,	4%
5.	“ “ “ “ are graduates of Kindergarten Training Schools,.....	11%
6.	Proportion of teachers who have had course in City Training Schools,.....	20%
7.	Proportion of teachers who are without training in Normal School, College, Kindergarten School or City Training Class,	12%

COMMENT ON TABLE XII.

1. The advance sheets of the forthcoming annual report of the State Board of Education show that 79% of the teachers throughout the State have had either a complete or a partial training in Normal Schools. Reference to the above table shows that only 39% of our teachers have had such training. Now this showing does not indicate, by any means, that the quality of the teaching in Melrose is inferior, but it does indicate that school officials throughout the State, as a rule, are putting a higher valuation upon Normal training than has been the practice hitherto in Melrose.

Normal training by no means assures a teacher's success ; but, other qualifications being equal, the teacher who has had such a training is a more valuable factor in a corps than the one who has not, because she brings to her work a degree of enthusiasm, professional zeal, and devotion to high educational ideals that, as a rule, does not characterize the teacher who lacks definite professional training.

While I do not forget that some of the best teachers with whom I have labored have lacked special preparatory training for their work, and while I believe that those qualities without which no teacher can reach a high degree of success are inborn, yet I feel confident that it will contribute to the strength of our corps, as vacancies may come, to increase the percentage of teachers who have been trained in Normal Schools, provided sufficient care is exercised in the selection of such teachers.

2. While the above table indicates, also, that 12% of our teachers are without training in either College, Normal School, Kindergarten, or City Training Class, it must not be inferred that such teachers are entirely untrained. Many of them through diligent study under private instruction, through attendance upon summer schools, through wide

reading, and through careful observation have secured a preparation for their work that puts to shame the preparation that many a would-be teacher brings from the Normal School.

In this connection it may not be out of place to say that, *as a whole*, the teachers of Melrose are manifesting a devotion to self-improvement in the line of their profession that is highly commendable. In my judgment, if our citizens could only understand the sacrifice of time and strength that many of our teachers are making, not only in term time, but during vacations, in order that they may become better fitted to train properly the boys and girls who are committed to their care, there would be less readiness on the part of parents to magnify mistakes that teachers make in common with the rest of humanity.

THE COURSE OF STUDY FOR THE ELEMENTARY GRADES .

I. READING. During the past year the work of rearranging the course of study, which was begun in 1899, has been advanced a step by the adoption of a carefully prepared outline in Reading and Literature for all grades below the high school. The general features of the plan include (1) a list of books and selections for class reading and study in all grades, (2) a list of books and selections to be read by the teacher to the pupils in grades I to VI inclusive, (3) a list of selections to be memorized in all the grades, and (4) a list of suggested home readings in grades V to IX inclusive.

The guiding thought in the preparation of the outline has been that the schools should aim to do more in connection with the course of reading than to enable pupils to get the thought of an author readily from the printed page and, if necessary, to express that thought effectively to others.

They should aim to implant in pupils a permanent taste for good reading by putting them in touch with the writings of many of the best authors under the guidance of appreciative teachers; they should aim to store the pupil's mind with choice selections as a means of present improvement and of future inspiration; and they should aim also to employ a portion of the pupil's leisure out of school with interesting and improving reading, both because such reading has a helpful influence on his daily work and because it lessens the desire and opportunity for the perusal of trashy and enervating literature. One cannot state positively the fitness of the present course for the accomplishment of these aims, until it has been fairly tested, nevertheless, an opinion may be formed by a careful study of the following outline.

GRADE I.

To be Read in Class: Ward's Primer, Cyr's Primer, Ward's First Reader, Cyr's First Reader, Bass's Beginner's Book, and Stepping Stones to Literature, Book I.

To be Read by Teacher to Pupils: Adventures of a Brownie (Muloch), In the Child's World (Poulsson), Selections from Heart of Oak Stories, Book I, Aunt Martha's Corner Cupboard (Kirby), and Selections from Whittier's Child Life in Poetry.

Selections to be Memorized: "I like little pussy," "If ever I see," "Hearts, like doors, can ope with ease," The Rock-a-by Lady (Field), The Busy Bee, (Watts), Dutch Lullaby (Field), The Daisy (Lovejoy), The Sunbeams (Poulsson). (At least five of the above are required).

GRADE II.

To be Read in Class: Ward's Second Reader, Cyr's Second Reader, Baldwin's Second Reader, Blaisdell's Child

Life, Book II, Stepping Stones to Literature, Book II, Bass's Animal Life, Bass's Plant Life, Ford's Nature's Byways, Beckwith's in Mythland, Brook's Stories of the Red Children.

To be Read by Teacher to Pupils: The Bird's Christmas Carol (Wiggin), Ballads For Little Folks (Cary Sisters), The Barefoot Boy (Whittier), Poems by Eugene Field.

Selections to be Memorized: Suppose (Phoebe Cary), Who Stole the Bird's Nest (Child), The Brown Thrush (Larcom), Goldenrod (Lovejoy), Sunshine, They Didn't Think (Cary), The Bluebird (Miller), The Child's World, The Mountain and the Squirrel (Emerson), America (Smith). (At least five of the above are required.)

GRADE III.

To be Read in Class: Ward's Third Reader, Blaisdell's Child Life, Book III, Carroll's Around the World, Book I, All the Year Round, (Autumn), (Winter), (Spring), Robinson Crusoe for Youngest Readers, The Story of Hiawatha, Pratt's Stories for Colonial Children, Wilson's History Reader for Elementary Grades.

To be Read by Teacher to Pupils: Selections from Whittier's Child Life in Prose, Village Blacksmith, (Longfellow), Little Pussy Willow (Stow), Little Lord Fauntleroy (Burnett), Thanksgiving Day (Child), The Landing of the Pilgrims (Hemans), The Midnight Ride of Paul Revere (Longfellow). (Connect the last three with History work).

Selections to be Memorized: Parts of the Barefoot Boy (Whittier), Discontent (Jewett), Hurrah for the Flag, The Cotton Plant, The Sand-piper (Thaxter), The Village Blacksmith (Longfellow), Learn a Little Every Day, The Flight of the Birds (Kimball), Faded Leaves (Alice Cary),

The Song of the Wind, Portions of Hiawatha (Longfellow), Hail Columbia. (The last two and at least five others are required).

GRADE IV.

To be Read in Class: Stepping Stones to Literature, Book III, Baldwin's Third Reader, Blaisdell's Child Life, Book IV, Carroll's Around the World, Book II, Seven Little Sisters, Each and All, Stories Mother Nature Told Her Children (Andrews), Baldwin's Old Greek Stories, Baldwin's Fifty Famous Stories Retold, Eggleston's Great Americans for Little Americans, Dodge's Stories of American History.

To be Read by Teacher to Pupils: The Jungle Book (Kipling), Beautiful Joe (Saunders), Little Men (Alcott), Five Little Peppers, (Lothrop), The Story Hour (Wiggin), Grandmother's Story of Bunker Hill (Holmes), The Discovery of America (Trowbridge), Barbara Freitchie (Whit-
tier). (Connect the last three with History work).

Selections to be Memorized: The Bluebell, Little Things, Little by Little (Clark), One Step and Then Another, The Minutes, Children (Longfellow), The First Snow Fall (Lowell), Somebody's Mother, Jack Frost, The Star Spangled Banner (Key), The Landing of the Pilgrims (Hemens). The last two and at least five others are required).

GRADE V.

To be Read in Class: Stepping Stones to Literature, Book IV, Baldwin's Fourth Reader, Sewall's Black Beauty, Pratt's Storyland of Stars, Hale's Little Flower People, Frye's Brooks and Brook Basins, Pratt's American History Stories, Vol. I and II, Pratt's Stories of Massachusetts, Hawthorne's Wonder Book.

To be Read by Teacher to Pupils: Swiss Family Robinson (Wyss), Rollo in London (Abbott), The Revolutionary Rising (Read), The American Flag (Drake), Independence Bell, Selections from Evangeline (Longfellow). (Connect the last four with History work).

Selections to be Memorized: True Worth (Alice Cary), The Use of Flowers (Howitt), Doing Nothing, One by One (Proctor), "The Mill will Never, Never Grind," From My Arm Chair (Longfellow), The Common Question (Whittier), Our Pattern (Phoebe Cary) My Window Ivy (Mary Mapes Dodge) Paul Revere (Longfellow), Barbara Freitchie (Whittier). (The last two and at least five others are required.)

Suggested Home Reading: Nelly's Silver Mine (Jackson), The Prince and the Pauper (Clemens), Zizzag Journey Series (Butterworth), Rollo in Paris (Abbott), Little Women (Abbott), Timothy's Quest (Wiggin), Captain January (Richards). (Three are required.)

GRADE VI.

To be Read in Class: Baldwin's Fifth Reader, Stepping Stones to Literature, Book V, Robinson Crusoe, Eddy's Friends and Helpers, Long's Ways of Wood Folk, Hawthorne's Tanglewood Tales, Four Great Americans, Four American Patriots.

To be Read by Teacher to Pupil: Howell's A Boy's Town, Being a Boy (Warner), Rab and His Friends (Brown), The Story of a Bad Boy (Aldrich), Angel of Buena Vista and Laus Deo (Whittier), John Burns of Gettysburg (Harte), The Sword of Bunker Hill (Wallace), Madam How and Lady Why (Kingsley).

To be Memorized: The Builders (Longfellow), The Mountain Torrent (Mackay), "Some love the outward show"

(Swain), "I'll find a way or make it" (Saxe), A Fable, Independence Bell, The American Flag (Drake). (The last two and at least three others are required.)

Suggested Home Reading: Bolton's Poor Boys Who Became Famous and Poor Girls Who have Become Famous, Brooks' Abraham Lincoln, Coffin's Old Times in the Colonies, Whitney's Faith Gartney's Girlhood, Alcott's Old Fashioned Girl, Dodge's Hans Brinker. (Three are required).

GRADE VII.

To be Read in Class: Evangeline (Longfellow), Myles Standish and Hiawatha (Longfellow), Hawthorne's Grandfather's Chair and Great Stone Face, Irving's Rip Van Winkle, Gulliver's Travels, Burroughs' Birds and Bees and Sharp Eyes. (Special study of the lives of Longfellow, and Hawthorne.

To be Memorized: The Chambered Nautilus (Holmes), Gradatim (Holland), A Psalm of Life (Longfellow), Abou Ben Adhem (Hunt), October's Bright Blue Weather (H. H. Jackson), The Rainy Day (Longfellow), Three Trees, Laus Deo (Whittier), The Revolutionary Rising (Read). (The last two and at least three others are required).

Suggested Home Reading: (1) From Log Cabin to White House (Thayer), Tom Brown at Rugby (Hughes), Polly Oliver's Problem (Wiggin), Melody (Richards), We Girls (Whitney), Boys at Chequassett (Whitney), (2) Standish of Standish (Austin), Betty Alden (Austin), Westward Ho! (Kingsley), The Story of Tony (Catherwood), Philip of Pokanoket (Irving), Last of the Mohicans (Cooper), With Wolf in Canada (Henty). (Two from each group are required).

GRADE VIII.

To be Read in Class: Selections from Irving's Sketch Book, Franklin's Autobiography, Greek Heroes (Kingsley), Life of Washington (Scudder), Poet's Tales of Wayside Inn (Longfellow), Snow Bound, Among the Hills and Mabel Martin (Whittier), Grandmother's Story of the Battle of Bunker Hill (Holmes), Lexington, Boston Common and My Hunt after the Captain (Holmes), (Make a special study of the lives of Whittier and Holmes during this year).

Selections to be Memorized: In an Age of Tops and Toys (Emerson), Over and Over Again (Pollard), Nobility (Alice Cary), What might be Done (Mackay), Daily Work (Mackay), The Spacious Firmament on High (Addison), Old Ironsides (Holmes), Union and Liberty (Holmes), The Flower of Liberty (Holmes). (The last three and at least three others are required).

Suggested Home Reading: (1) Two years before the Mast (Dana), In His Name (Hale), Treasure Island (Stevenson), Two Penniless Princesses (Yonge), The Hoosier School-Boy (Davis). (2) Lionel Lincoln (Cooper), The Spy (Cooper), Domestic History of the Revolution (Ellet), Thankful Blossom (Harte), The Green Mountain Boys (Thompson), The Rangers (Thompson), The Old Harbor Town (Watson), The Partizan (Sims), Little Jarvis (Seawell), Midshipman Paulding (Seawell), Zachary Phipps (Bynner), Signal Boys (Eggleston), Captain Sam (Eggleston), Big Brother (Eggleston), The Circuit Rider (Eggleston). (Two of group one and three of group two are required).

GRADE IX.

To be Read in Class: Brown of Ossawatomie and the Eve of Election (Whittier), Tales of a Wayside Inn (Long-

fellow), The Death of Lincoln The Death of Slavery, Oh Mother of a Mighty Race, Thanatopsis and To a Waterfowl (Bryant), Speech on the Federal Union and on Hamilton (Webster), First and Second Inaugurals and Speech at Gettysburg (Lincoln), Boston Hymn, The Concord Hymn, and Essays on Behavior, Abraham Lincoln and the Emancipation Proclamation (Emerson), Abraham Lincoln, Books and Libraries, Commemoration Ode, An Interview with Miles Standish, The Heritage, An Incident in a Railroad Car and the Vision of Sir Launfal (Lowell), A Man Without a Country (Hale), Christmas Carol (Dickens), Lamb's Tales from Shakespeare, (Special study of the lives of Bryant, Emerson and Lowell during this year).

Selections to be Memorized: The Hurricane (Bryant), The Love of God (Bryant), To the Dandelion (Lowell), The Bumble-Bee (Emerson), The Manliest Man (Geo. W. Bungay), Love of Country (Scott), Ring Out, Wild Bells (Tennyson), To the Fringed Gentian (Bryant), Sheridan's Ride (Read), Song of Marion's Men (Bryant), The Ship of State (Longfellow). (The last three and at least three others are required).

Suggested Home Reading: (1) John Halifax, Gentleman (Muloch), Down the Ravine (Craddock), Kidnapped (Stevenson), Twenty Leagues Under the Sea (Verne), Boots and Saddles (Custer), David Copperfield (Dickens), Nicholas Nickelby (Dickens), History of a Mouthful of Bread (Mace), New England Girlhood (Larcom), Lorna Doone (Blackmore). (2) Uncle Tom's Cabin (Stowe), The Three Scouts (Trowbridge), The Drummer Boy (Trowbridge), Two Little Confederates (Page), Among the Camps (Page), Tom Clifton; or Western Boys in Grant's and Sherman's Army (Goss), On the Plantation (Harris), A Fool's Errand (Tourgee), In the Boyhood of Lincoln

(Butterworth), Ivanhoe (Scott), The Talisman (Scott), (At least three from each group are required).

II. Latin in Grade IX. Previous to the present school year it had not been possible in our schools for pupils to begin the study of Latin until they entered the High School. Now to do well in the four years of the High School course the work that is required in this line in preparation for college and in the same period to accomplish the requirements in other lines imposes upon pupils a task that is not for their best interests under the present conditions, either from a physical standpoint or from the standpoint of thoroughness of preparation. With this thought in mind arrangements were made, near the beginning of the term in September, so that pupils might begin the study of Latin in grade IX provided their parents so desired. As a result of this arrangement 59 pupils are now taking this study in that grade,—24 in the Washington School, 18 in the Lincoln School, and 17 in the Franklin School. Naturally the plan is yet in the experimental stage but the results thus far secured warrant the assertion that the change is a step in the right direction, and, with some modifications in the work of the ninth grade at the opening of the next school year, it may well become a permanent arrangement.

THE HIGH SCHOOL.

I. The honest and well-matured opinion of any man is entitled to respect, but in public utterance or action men should hesitate to take a position of antagonism or even of uncertainty toward any worthy institution until the facts in the case are well in hand. I regard it as unfortunate for Melrose that during the past year a few men holding high official positions in the city have committed themselves by implication at least to an attitude of uncertainty regarding

the wisdom of maintaining a first-class high school at public expense. I believe there are few in our community who feel thus, but such an attitude by even one prominent citizen is prejudicial to the best interests of the high school, and therefore of the city, just in proportion to the prominence of the individual and to the confidence that citizens repose in him. One who questions, today, the wisdom of taxing the public for the maintenance of a first-class high school in a community of the size of Melrose does so, in my judgment, from a limited understanding of the work of a modern high school and from a failure to size-up properly the tendency and need of the times so far as young people are concerned.

While the position of the high school as a part of the public school system in Massachusetts is too well established to need defense, it may be wise to call attention to a few facts indicative of the estimate that the public at large puts upon this part of the public school system.

1. During the last school year there were enrolled in the high schools of the Commonwealth 40,592 pupils,—a number 100% greater than was registered fifteen years ago. The full significance of this increase is not apparent until you place beside it the fact that during this period of fifteen years, in which the high school attendance increased 100%, the population of the State increased only 40%. This fact alone indicates a striking growth of appreciation, on the part of the people, of the value of high school training.

2. Another indication of public opinion in this matter is found in a law enacted by the General Court in the winter of 1898, which reads in part as follows: "Every city and every town of five hundred families or householders . . . shall . . . maintain a high school, adequately equipped, to be kept by a principal and such assistants as

may be needed who shall give instruction in such subjects as may be required for the general purpose of training and culture as well as *for the special purpose of preparing pupils for admission to State Normal Schools, technical schools and colleges.*

Any town of less than five hundred families or householders in which a public high school . . . is not maintained *shall pay for the tuition of any child who resides in said town and attends the high school* of another town or city."

The text of this statute indicates that the value to the State of a high school training for its citizens is sufficiently evident to warrant our legislature in placing within the reach of every child in the Commonwealth the opportunity for training in a first-class high school.

3. I have heard it suggested that high schools are not democratic in the character of those who attend them, but are essentially college preparatory schools for the children of well-to-do parents. In reply to such suggestion it is sufficient to submit the following facts:

First, of the 40,592 pupils registered in the high schools of Massachusetts during the past school year, 88% were taking what may be termed general courses, i. e., courses that are not calculated to fit for college. This fact alone shows the fallacy of the charge that high schools are designed or administered in the interest of any special class of pupils.

There is a second consideration, however, that is worth noting in this connection, viz., the occupations of parents who have children in our high school. An investigation in this line reveals the facts in the following table.

OCCUPATION OF PARENTS HAVING CHILDREN IN HIGH SCHOOL.

List of Occupations.	No.	List of Occupations.	No
Merchant.....	33	Broker	2
Traveling Salesman.....	17	Coachman.....	2
Clerk	12	Milk Dealer	2
Book Keeper.....	9	Buyer	1
Real Estate.....	7	Express Business.....	1
Carpenter	6	Art Publisher	1
Business Manager.....	6	Brass Worker.....	1
Rubber Worker.....	6	Book Binder.....	1
Printer	6	Milliner	1
Manufacturer.....	6	Gardener	1
Contractor	6	Lithographer	1
Salesman	6	Mining Engineer.....	1
Machinist	5	Photographer.....	1
Physician	5	Architect.....	1
Mason.....	5	Wood Carver	1
Insurance	4	Evangelist.....	1
Designer	4	Freight Agent.....	1
Corporation Treasurer	4	Employment Office	1
Tailor.....	4	Fireman	1
Shoemaker	3	Piano Finisher	1
Lawyer	3	Barber	1
Civil Engineer.....	3	Paper Hanger	1
Painter	3	Engraver	1
Letter Carrier	3	Laundry	1
Heating Engineer.....	2	Sailor.....	1
Stable Keeper	2	Brick Maker.....	1
Overseers.....	2	Druggist	1
Sea Captains.....	2	Dermatologist ..	1
Cabinet Maker.....	2	Farmer.....	1
Agent	2	Dressmaker	1
Pattern Maker.....	2	Stair Builder.....	1
Station Agent.....	2	General Sales Agent	1
Dentist.....	2	Editor.....	1
Teamster	2	Steamship Business.....	1
Music Teacher.....	2	News Dealer	1
Clergyman.....	2	Inspector	1
Retired from Business	2	Jeweler	1
Canvasser	2	Teacher	1
Caterer.....	2		

Now, if the results from this investigation prove anything, it is that the Melrose High School is in no sense a class institution, but is thoroughly democratic in its membership; and in my judgment this is equally true of high schools in general.

One who wishes to study the present condition of our high school and the character of the work that is being done

therein will find the following facts interesting and valuable.

II. *Regarding Attendance:* a. The number of pupils registered in the school in September in each of the following years, 1898, 1899, and 1900 was as follows:

Year.	Fourth Class.	Third Class.	Juniors.	Seniors.	Post Graduates.	Total.
1898	76	62	59	29	6	232
1899	88	59	47	46	7	247
1900	116	61	50	40	9	276

From these figures it will be seen that the number of pupils registered in the school in September, 1900, was practically 12% greater than in September, 1899, and 19% greater than at the corresponding period in 1898.

b. The average membership of the school for 1900 was 250.26, an increase of 9% over that of 1899, and the number of different pupils enrolled during 1900, exclusive of re-enrollments, was 266, a number 9½% greater than the corresponding number for 1899.

These facts are gratifying for they indicate that the school is steadily enlarging its field of direct influence inasmuch as there has been practically no increase in the population of the city during this period.

c. Further study of the statistics on attendance reveals the fact that, omitting consideration of post-graduates and those who graduated in June, 1900, the number of pupils who severed their connection with the school during the period from September, 1899, to September, 1900, was 3% less than the number who severed their connection with the school during the previous year. This result is significant as indicating that the school is holding its pupils better than formerly.

III. *Regarding Graduates:* In June, 1900, 46 pupils received diplomas of graduation from the school. Of this number, nine are taking courses of study in college, three

in Massachusetts Institute of Technology, four in Normal Schools, one in the New England Conservatory of Music, one in a business college, one is teaching, six are doing post-graduate work in the high school, one is unaccounted for, and twenty have entered upon a business career. This last fact is significant for, when 43% of our graduates enter business life directly from the high school there would seem to be good reason for the maintenance in the school of a line of work calculated to give more or less training that shall contribute directly to success in a business career.

IV. *Regarding Choice of Studies:* The following table shows the number of pupils at present registered in the different lines of study in the school.

Lines of Study.	CLASSES.					
	Fourth	Third	Junior	Senior	Post Graduate	Totals
English	114	59	48	37	5	263
History	94	30	8	31	4	167
Mathematics	107	41	20	4	1	173
Book-keeping .....	.....	17	8	3	1	28
Science	42	19	3	1	65	
Latin	44	29	12	10	1	96
Greek .....	.....	10	9	4	.....	23
German .....	.....	19	9	11	3	42
French	20	37	28	15	2	102
Stenography .....	.....	23	14	6	43	
Type-writing .....	.....	28	7	7	42	
Penmanship	69	.....	.....	1	70	
Music	64	30	25	16	1	136
Physical Culture	40	13	14	9	2	78
Drawing	56	13	11	6	.....	86

In attempting deduction from the above table it should be borne in mind (1) that English is required throughout the four years of the course and Algebra throughout the first year, (2) that German and Greek are open to the three upper classes only, (3) that Stenography, Typewriting and

Bookkeeping are open to the Juniors and Seniors only, (4) that Penmanship is open to the fourth class only, and (5) that Physical Training is open to the young ladies.

V. CHANGES IN TEACHERS.

At the close of the term in June two teachers—Mary J. George and Marion Snow—severed their connection with the school. Miss George was transferred to the position of Master's assistant in the Franklin School, and Miss Snow resigned to enter upon a course of study at Radcliffe College. Margaret McGill of Natick, a graduate of Mt. Holyoke and a teacher of successful experience, was elected to fill the vacancy made by the transfer of Miss George, and Helen M. Armstrong of Winchester, a graduate of Boston University, was elected to fill the vacancy made by Miss Snow's resignation. It is gratifying to state that these new teachers have manifested in their work an enthusiasm, a degree of scholarship and teaching ability, and a strength of character that make them valuable additions to the corps.

In December, Hubert G. Shaw, who had charge of the Science Department, resigned to accept a similar position in the Murdock School at Winchendon at an increased salary. George A. Hutchins, a graduate of Bates College, who for the past five years had taught the sciences in the Amesbury High School, was elected to fill the vacancy created by Mr. Shaw's resignation. Although Mr. Hutchins has not been with us long enough to show fully what results his teaching may be capable of producing, I feel confident from the quiet, masterful way in which he has begun his labors with us that no mistake was made in selecting him for this position.

VI. CHANGES IN COURSE OF STUDY FOR THE HIGH SCHOOL.

In accordance with suggestions presented in my annual report for 1899, music and drawing have been placed among the elective studies, biology has been added to the curriculum, and the department of history has been reorganized and put upon a basis that enables the school to give students advantages in the line of historical study that can be secured in few high schools. In addition to these changes, in accordance with the suggestions of Principal Whiting, Physiography has been dropped from the list of electives for the Fourth Class and French and Commercial Arithmetic added, Commercial Law and Geography have been substituted for Commercial Arithmetic in the electives for the Third Class, and Trigonometry and College History added to the list of electives for the Seniors. The reasons for these changes have been carefully discussed and approved by the committee and need not be repeated at this time.

VII. REGARDING THE COST OF THE HIGH SCHOOL.

The total expenditure in connection with this school during the period from February, 1900, to February, 1901, was \$18,509.07, which is 24% of the total school expenditure for the city for the corresponding period. This amount was expended as follows;

For salaries of teachers, janitor and engineer,	\$14,313.33
For books and supplies,	2,105.98
For fuel,	1,428.17
For sundries,	340.93
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Total for support of school,	\$18,188.41
For repairs and permanent improvements,	320.66
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Total for all purposes,	\$18,509.07

The following table shows the cost per pupil for the year based upon the average membership of the school.

PER CAPITA COST IN HIGH SCHOOL FOR 1900.

For Support of School:

Teachers, janitor, engineer,	\$57.19
Books and supplies,	8.42
Fuel,	5.71
Sundries,	1.36
For repairs and permanent improvements,	1.28
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Total for all purposes,	\$73.96

Inasmuch as the State does not require separate returns regarding the expenditure for high schools, and nearly all places fail to keep a separate account of such expenditure, I am not able to make an accurate comparison between the per capita cost in the Melrose high school and the average per capita cost for the high schools throughout the Commonwealth; but, from the investigation that I have made, I believe that the cost in our school is relatively high. In justification of this conclusion it may be said that the high school per capita cost in Malden for the past year was \$63.83; and in Somerville for the Latin high, \$60.62, and for the English high, \$57.07. Now the high schools in these places are fair types of the better and more expensive class of high schools, therefore, as it appears that the high school per capita cost in Melrose is above that in these places, it seems reasonable to conclude that it is also above the average for the State at large.

There are several good reasons to be given in explanation of the relatively high cost of our high school.

I. When the old high school building was burned, prac-

tically all high school books and supplies on hand either perished with the building or were rendered useless through water and smoke. In re-stocking the school, purchases were made, naturally, only up to the limit of membership at that time. Now during the past few years, as has been shown, there has been a large increase in the attendance upon the school and it is easy to see that this increase under the conditions has called for larger annual expenditures than may be expected under normal conditions.

2. Another cause that tends to raise the cost per pupil in our high school is the relatively large number of male teachers employed. For example, the average per cent. of male teachers in the high schools of the ten cities in Middlesex County outside of Melrose is 29%, while in Melrose it is 41%. Inasmuch as the salaries paid male teachers are, as a rule, considerably higher than those paid female teachers, it is evident that the expenditure for salaries in our high school is more than it would be if, without change in individual salaries, the ratio of male teachers in the corps were reduced to 29%, the average for the other cities in the County. In this connection, however, it must be borne in mind that from a broad educational standpoint there are distinct advantages to be secured from this larger masculine element in our corps.

3. Another thing which, for the time being, makes the per capita cost higher than the normal is the fact that in the growth of the school the point has been reached where eleven teachers cannot quite do the required work although twelve, the number now on the pay-roll, will be sufficient until the membership is considerably larger than at present.

4. The fourth point to be considered in passing judgment upon the cost of this school is the expenditure for heating and care of the building. The present membership of the

school does not nearly fill the building to its normal capacity. Nevertheless, owing to the fact that practically every room is necessarily put to some use in connection with the school work, the cost for heating and care is essentially as great today as it would be if the number of pupils in attendance were up to the designed capacity of the building. Obviously this has an effect to make the cost per pupil for education in the school higher than it may be expected to be as the attendance increases, other things being equal.

However, with all that may be said in explanation of the cost of our high school, the fact remains that the cost is high and that there is imperative need for the committee to curtail the expenditure for this branch of the school system whenever and wherever it can be done without impairing its efficiency or repudiating obligations contracted by preceding committees in their efforts to reorganize and strengthen the school. The recent action of the committee in filling a vacancy in the school whereby an annual saving of \$300 in the expenditure for salaries has been effected, is sufficient evidence that the members are fully alive to their duty in this respect.

VIII. Regarding the Various Lines of Work. The following statements from the teachers giving the aim, the plan of work, the time allotment, and the ground covered in the respective lines of study will be found helpful in securing a good understanding of what is being done in this school.

AIMS AND METHODS OF WORK IN THE HIGH SCHOOL.

William C. Whiting, Principal.

A High School, in order to meet the demands of the public and exert an influence as wide-spread as possible,

must, first of all, be the people's school, an institution whose doors are open to all and whose duty it should be to arouse in every pupil in the grades an ambition to reap the full benefits of existence. It should be the educational centre of the community and its influence should be felt from the highest to the lowest grades. It should keep in close touch with the work of all the other schools and there should be the most cordial relations between its teachers and those of the grades. It should provide a course of study both helpful and congenial touching life's future experiences as often as possible. It should hold every entering pupil as a sacred charge to be ministered unto as best suits his particular needs and be deeply concerned when anyone for insufficient reasons leaves school before the completion of the course.

In every city where there is only one high school it must of necessity prepare for college. In this department of its work it must and ought to demand well-prepared pupils, to refuse to admit those who are imperfectly prepared, and to insist on a high degree of excellence for regular promotions

The *aim* of our high school is therefore :

1. To give thorough instruction in all the branches taught.
2. To develop mental and moral power which will make noble and sincere men and women.
3. To so unfold to the pupils the different subjects as to instil in them a desire for self-improvement after leaving school.
4. To prepare the pupils as thoroughly as possible, in the time given, for life's responsibilities.

ENGLISH.

Everett H. Scott, Director.

Fourth Class, Everett H. Scott, William C. Whiting and Jennette Moulton, teachers.

Third Class, Junior Class, Senior Class, Everett H. Scott, teacher.

Aim: Fourth class, the cultivation of clear and easy expression; third class, the orderly arrangement of ideas and some understanding of paragraph structure; junior class, thorough acquaintance with six English classics; senior class, thorough knowledge of four English classics for pupils entering college, some acquaintance with the history of English Literature and illustrative reading for those not entering college.

Method: Three-fold: first, careful readings; second, general discussions; third, frequent written exercises based on authors read.

Time devoted to the work: Four hours a week during first and fourth years, three hours a week during second and third years.

Text-Books: Lockwood's Lessons in English; Scott and Denny's Composition-Rhetoric; Brooks' English Literature; editions of Shakespeare's *As You Like It*, *Macbeth* and *Merchant of Venice*; Coleridge's *Ancient Mariner*; Burke's *Speech on Conciliation*; DeQuincey's *Flight of a Tartar Tribe*; Irving's *Sketch Book*; Cooper's *Last of the Mohicans*; Lowell's *Vision of Sir Launfal*; Scott's *Ivanhoe*; Macauley's *Essays on Milton and Addison*; Milton's *Paradise Lost*; Dryden's *Palamon and Arcite*; Addison's *Sir Roger de Coverley papers*; Pope's *Homer's Iliad*; Tennyson's *Princess*; *Coming of Arthur*, and *Passing of Arthur*; Goldsmith's *Vicar of Wakefield*; Curtis's *Public Duty of Educated Men*; Orations by Adams, Jefferson, and Webster.

HISTORY.

Margaret McGill, Director.

Greek and Roman History, Margaret McGill, teacher.

Aim : To have pupils acquire a knowledge of the achievements of Greece and Rome in government, institutions, literature and art, and what the world owes them because of these achievements.

Method : Assigned topics form the basis of daily work. Note-books containing outlines of periods studied, geographical lists and notes on collateral reading are kept by pupils. Short papers upon subjects selected for special investigation are required and the results of reading upon assigned subjects are given as special recitations by pupils. The geographical lists are used as the basis for work with outline maps at the close of each period studied.

Time devoted to the work : Four periods weekly for forty weeks are given to this work. Twenty weeks are given to Grecian and twenty to Roman History.

Text-Books : Botsford's History of Greece, Myer's History of Greece, and Myer's Rome : Its Rise and Fall, for class use ; and for special reference Curtius, Abbott, Holm and Mahaffy in connection with Grecian History, and Tighe, Ihne, Fowler and Lanciani in connection with Roman History.

Mediaeval History, Margaret McGill, teacher.

Aim : To give, besides continued historical training, an acquaintance with the great events of mediaeval times, and an understanding of such civil and social conditions as have most closely affected the development of modern nations.

Method : The method of instruction is in general the same as that for the fourth class with a more critical study of institutions and events.

Ground Covered : A general survey of the period from

the "Downfall of Rome" to the division of Charlemagne's Empire. A special study of the French nation is made from that period down to the present time.

Time devoted to the work: Four recitations per week for one year.

Text-Books: Emerton's introduction to the Middle Ages, Adams' Growth of the French Nation.

English History, Adelma A. Ballou, teacher.

Aim: To understand the race characteristics, the causes that have led to the development and expansion of the English nation, its political institutions, its relations to other nations, its religious ideas, its literature and customs, and its contributions to the world's progress.

Method: Text-Books are used to furnish a connected outline. Students are assigned topics for library reading and the information obtained is discussed in class or made the subject of written papers.

Time devoted to the work: Four periods per week for forty weeks.

Text-Books: Montgomery's Leading Facts, and Guest, and Underwood's History of England.

United States History, William C. Whiting, teacher.

Aim: A clear understanding of (1) the causes which led to the colonizing of America. (2) The growth of the spirit of independence. (3) The great questions which led to the Civil War. (4) The development of a national spirit.

Method: The topical method is followed, much library work being required and the information received forming the basis of all discussions and written papers. When possible historical places are visited and studied.

Time devoted to the work: Four periods per week for forty weeks.

Text-Books: Channing's Students' History of the United

States. Fiske's History of the United States. Judson's Growth of the American Union.

ALGEBRA.

Fourth Class, Harriet C. Fairbanks and William C. Whiting, teachers.

Aim: 1. The formation of habits of close attention to the mathematical principles involved.

2. To secure directness of thought and conciseness of expression.

3. To develop neatness, accuracy, skill and self-reliance in making computations.

Method: 1. A careful presentation of the assigned lesson.

2. A systematic drill in examples illustrative of review and advance principles.

3. Written test work usually occupies the last fifteen minutes, the object of which is to awaken keener interest and secure more satisfactory results.

Time devoted to the work: Four recitations per week for forty weeks.

Ground Covered: Review of work done in ninth grade and advance work to Binomial Theorem.

Text-Books: Wells' Academic Algebra, supplemented by Wentworth, Atwood and McCurdy.

Junior Class, Alonzo G. Whitman, teacher.

Aim: To prepare for College and Institute of Technology.

Method: Black-board work and written exercises.

Time devoted to the work: $\frac{1}{2}$ year, (20 weeks), four hours a week.

Ground Covered: General Review of College requirements.

Text-Book: Wells' Elementary Algebra.

GEOMETRY.

Third Class, Alonzo G. Whitman, Teacher.

- Aim: (a) To acquire the principles of plane geometry.
(b) A preparation for College and Technology.
(c) A familiarity with methods of exact reasoning.

Method: By blackboard demonstrations and written exercises. Original demonstrations are chiefly employed.

Time devoted to the work: One year, (40 weeks), four hours per week.

Ground Covered: The first year nearly all of plane Geometry.

Text-books: Wells' Plane and Solid Geometry.

Junior Class, Alonzo G. Whitman, Teacher.

Aim: To prepare for College and Technology.

Method: Use of original demonstrations and text-book exercises.

Time devoted to the work: One half year (20 weeks), four hours a week.

Ground Covered: General review and completion of plane geometry.

Text-book: Wells' Plane and Solid Geometry.

Senior Class, Alonzo G. Whitman, Teacher.

Aim: Advanced requirements for Technology.

Method: Practical original exercises and text-book work.

Time devoted to the work: One year (40 weeks), three hours a week.

Ground Covered: All of solid geometry.

Text-book: Wells' Plane and Solid Geometry.

PHYSICS.

Third Class, George A. Hutchins, Teacher.

Aim: To teach the habit of skilful manipulation and careful

observation, to develop the ability to make correct inferences and to give pupils a knowledge of the common scientific phenomena and their practical applications.

Method: A combination of text-book and laboratory work is used.

Time devoted to the work: Four periods per week for forty weeks.

Text-book: Gage's Introduction to Physical Science.

Senior Class, George A. Hutchins, Teacher.

Aim: Primarily to fit pupils for the Harvard entrance examinations in physics, although no pains will be spared to give a practical knowledge of the subject.

Method: Laboratory exercises supplemented by text-book and reference book work.

Time devoted to the work: Four periods per week for forty weeks.

Text-books: Hall and Bergen's Physics for laboratory guide. Various reference books in the School Library.

CHEMISTRY.

George A. Hutchins, Teacher.

Aim: To give increased training in careful laboratory manipulation and observation, also to teach "a knowledge of the fundamental theories of chemistry, an acquaintance with the properties of the common elements and their compounds, and their application in life."

Method: The work is principally laboratory experimentation, the text-book being used as a guide to the work.

Time devoted to the work: Four periods per week for forty weeks.

Text-book: Newell's Chemistry.

GEOLOGY.

Senior Class, Alonzo G. Whitman, teacher.

Aim : To acquire the principles of rock formation, earth sculpture, etc.

Method : By oral and written work, topics and discussions.

Time devoted to the work : One-half year (twenty weeks), three hours a week.

Ground Covered : The general subject.

Text Book : Shaler's First Book

ASTRONOMY.

Senior Class, Alonzo G. Whitman, teacher.

Aim : A knowledge of the heavenly bodies and the laws governing them.

Method : By questions and answers, oral and written.

Time devoted to the work : One-half year (twenty weeks), three hours a week.

Ground Covered : The general subject.

Text-Book : Lockyer's Elementary Astronomy.

GREEK.

Jennette Moulton, teacher.

Aim : To fit pupils to enter college, to give them some little appreciation of a few pieces of Greek literature, to give them, so far as possible, a knowledge of Greek that shall prove helpful in all their future study of the language and literature of the English-speaking people.

Method : With the first year pupils, to place the emphasis on grammatical forms and on the more useful and necessary phases of Greek syntax, to help them secure a vocabulary which shall be directly helpful in reading the *Anabasis*.

With the second year pupils, to strengthen the knowledge of grammatical forms and of syntax acquired by the first year's work by means of a translation of Xenophon's *Anabasis*, and by means of prose lessons once a week, or oftener. Careful attention is given to the review from day to day, and as much reading at sight is done as possible.

With the third year pupils, first to secure familiarity with Homeric forms and acquaintance with the Homeric vocabulary by careful preparation of the text and by constant review, then to acquire ease in reading at sight.

Time devoted to the work : First year, four recitations a week for forty weeks. Second year, five recitations a week for forty weeks. Third year, four recitations a week for forty weeks.

Ground Covered : First year, a beginners' book with a few pages of the *Anabasis*. Second year, four books of the *Anabasis* with several pages of the *Cyropædia*; one recitation per week in prose. Third year, the first six books of the *Iliad*, with selections from the last six books.

Text-Books : First year, Gleason and Atherton's *First Greek Book*. Second year, Goodwin and White's *Anabasis*, Pearson's *Greek Prose*, Gleason's *Cyropædia*. Third year, Keep's *Iliad*, Books I-VI; Munro's *Iliad*, Books XIII-XXIV.

LATIN.

Fourth Class, Harriet C. Fairbanks, teacher.

Aim : To remove, at the outset, some of the difficulties often encountered in an ancient language ; then, by progressive and not too difficult steps, to enable the learner to read easy Latin as well as to translate it into good English ; also, to train the mind of the pupil to thoughtful, patient, conscientious study and to an appreciation, as far as possible, of the Latin and English languages.

Method: The daily recitation embraces a brief consideration of the next lesson, during which the Latin vocabulary and difficult constructions are noted and explained; oral or written practice in grammatical forms and syntactical relations; the translation of Latin sentences, particular stress being given to inflections and position of words; a thorough analysis of the English exercises before translating them into Latin. Occasional sight translation is used as an aid to more rapid advancement and greater pleasure for the student.

Time devoted to the work: Five periods per week for forty weeks.

Ground Covered: The "First Latin Book" is completed, and an average of twenty pages in the "New Gradatim."

Text-Book: Collar and Daniell's First Latin Book, and Heatley, Kingdom and Collar's New Gradatim.

Third Class, Junior Class and Senior Class, Adelma A. Ballou, teacher.

Aim: Ability to translate; knowledge of structure of language; knowledge of derivation of Latin words; knowledge of derivation of English words from Latin; a notion of the Roman character and ideas, their outward circumstances and customs, as shown in their literature.

Method: Translation, both prepared and at sight; examination of syntax; learning formation of words; learning meanings of historical and mythological references; scanning poetry; oral and written composition.

Time devoted to the work: Three school years, four recitations per week for forty weeks each year.

Ground Covered:

Third Class: Four books of Caesar and selections from the second year Latin Book by Greenough, D'Ooge and Daniell.

Junior Class: Four orations against Cataline, first two books of the Aeneid and selections from various authors for sight work.

Senior Class: Oration for Archias, the Manilian Law, and books III to VI inclusive of the Aeneid.

Text-Books : Collar's Gate to Caesar, Harkness's Caesar, second year Latin Book by Greenough, D'Ooge and Daniell, Harkness's Cicero, Greenough and Kittredge's Virgil, Allen and Greenough's Shorter Latin Grammar, Daniell's New Latin Composition.

GERMAN.

Third Class, Annie C. Merritt, teacher.

Aim: To train the ears of pupils to understand readily spoken German. (2) To teach pupils to speak, read and write German with some fluency.

Method : From the first lesson the work is carried on almost wholly in German, the vocabulary in the beginning being confined to simple words. The reading lesson forms material for conversation in German, not for translation into English, and the pupils are required from the first to reproduce every lesson in their own words. In this way they acquire early some facility in connected and extended discourse. Grammar is taken up after the pupils have studied German a few weeks. The principals of grammar and their application are taught, however, for the most part inductively from the reading matter and conversation, and drill in verbs forms an important part of each day's work.

Time devoted to the work : Four periods a week for forty weeks.

Text-Books : Harris's German Lessons, Gueber's *Marchen und Erzählungen*, Parts I and II, Joynes's German Reader and *Moni der Geissbub*.

Junior Class, Annie C. Merritt, teacher.

Aim: To enable pupils to acquire the ability to read ordinary German at sight, to translate English into German, to become familiar with more difficult points of grammar, and to begin the acquisition of a vocabulary of technical terms as a preparation for the study of scientific works in German.

Method: One day each week is given to technical grammar, one to composition (translation of English into German, or original composition), one day to reading and talks upon Elementary Physics and Chemistry, and one day to the reading of German stories, the conversational method being employed as during the preceding year. Translation into English is begun this year, but is carried on only to a very limited extent.

Time devoted to the work: Four periods per week for forty weeks.

Text-Books: Harris's German Composition, Collar's Eysenbach, Dippold's Scientific German Reader, Germelshausen, Hoher als die Kirche, and Der Neffe als Onkel.

Senior Class, Annie C. Merritt, teacher.

Aim: To do somewhat difficult composition and science work and to introduce the pupils into the field of German literature now that they have enough knowledge of the language to begin to appreciate its literature and study it as such.

Method: Pupils not only translate into English the books read this year but attempt, as much as possible, to discuss them in German in the same way that pupils in the English classics study gems of English literature.

Time devoted to the work: Four periods per week for forty weeks.

Text-Books: Harris's German Composition, Dippold's

Scientific German Reader, Wilhelm Tell, Gustav Adolf in Deutschland, Der Fluch der Shonheit, Minna von Barnhelm, and Sesenheim.

FRENCH.

Fourth Class, Annie C. Merritt, teacher.

Aim: See third class German.

Method: See third class German. The sounds of the French language are so unlike those of English and the manner of exercising the vocal organs so unlike for the two languages, that a systematic and thorough drill in vocal gymnastics is essential to a good French pronunciation, and so during the first weeks a great amount of time is devoted to the study of phonetics. The system employed is that recently brought to the Institute of Technology from Johns Hopkins University.

Time devoted to the work: Four periods per week for forty weeks.

Text-Books: Keetel's Grammar, Super's French Reader, Contes et Legendes, Causeries avec mes Eleves.

Third Class, Junior Class, Senior Class: Hattie G. Ricker, Teacher.

Aim: To lay a foundation on which pupils may build for themselves; to assist them in their preparation for college and for life.

Method: In grammar, it is the endeavor to lay a solid foundation, without which all work must fail in one of its strongest elements. Composition is used to make practical the knowledge gained from the grammar, and to familiarize the pupils with French idioms. In translation, we try to express the thought of the text in clear, idiomatic English. Sight translation enables the pupil to use the knowledge that he has gained from grammar, composition and prepared

translation. Throughout the course the spoken language is used sufficiently to accustom the pupil somewhat to the sound of the foreign tongue, and he is encouraged to express himself in French.

Ground Covered: Third Class: Twenty lessons in the grammar; memorizing poems; translation from the Reader and from simple text; sight translation.

Junior Class: Grammar continued; first part of Grandgent's Composition; selections from texts mentioned under Text-Books; sight translation; dictation.

Senior Class: Grammar continued; Second part of Grandgent's Composition; selections from Text-Books; sight translation, dictation.

Time devoted to the work: Four recitations per week for forty weeks.

Text-Books: Keetel's Grammar, Grandgent's Composition, Super's Reader, Contes de Fees, La Mere Michel at son Chat, L'Expedition de La Jeune Hardie, L'Abbe Constantin, L'Evasion de la Seigliere, La Petite Fadette, Colomba.

COMMERCIAL DEPARTMENT.

Hugh G. Greene, Director.

Helen M. Armstrong and Hugh G. Greene, Teachers.

Aim: (1) To offer a preliminary business training to pupils who expect to take positions as office assistants. (2) To give an intelligent knowledge of business methods as an element of good citizenship. (3) To exert a strong educational influence along lines of neatness, accuracy and system.

Method: (1) Each pupil is taught individually as far as possible. (2) The laboratory method is used almost exclusively in book-keeping instruction. (3) Pupils are encouraged to consult a variety of reference books in the

High School Library and in the Public Library. (4) Opportunity is given for voluntary extra work afternoons. (5) Special training is given in the performance of office duties by assigning to pupils clerical work in connection with all departments of the school.

Course of Study: Writing: First year, two lessons a week. The vertical system is extended to fluency and fair legibility and form in rapid writing.

Arithmetic: First year, three lessons a week. The following subjects are taught with reference to practical business: Fundamental operations by short methods, Aliquot parts, Interest, Discounts, Partial Payments, Equation of Accounts, Billing, Exchange, Metric System, Conversion of Currencies; accuracy is the principal aim.

Correspondence: Last term of first year, two or three lessons a week. The proper form for various kinds of letters. Methods of handling correspondence. Formal wording of regular letters such as orders, remittances, acknowledgements, letters of application, etc. Some practice in writing letters which require special tact. How to assist in correspondence.

Book-keeping: Theory and practice combined from the start. The use of all standard forms of books of account, blank forms, and methods of filing. Full development of special columns and special books for department stores, manufacturing establishments, and corporations. Bank book-keeping. A reading course on business topics of current interest. Last two years, five lessons per week,

Shorthand: Theory of the Benn Pitman system of Phonography, passing through the three stages, Corresponding style, Easy Reporting style and Brief Reporting style. Dictation from various works of general literature. Special training in business correspondence, writing of legal docu-

ments, and formal notices for publication. One hundred words a minute in regular work. Last two years, four lessons a week.

Typewriting: Last two years, four lessons a week. The construction and use of Remington and Smith Premier machines. Fingering by the all-finger method. Repetition practice. Copying from print. Transcribing from shorthand. Preparation of correspondence, legal papers and notices. Carbon duplication, letter-press copying and the use of the Edison mimeograph.

Commercial Law: One term of the second year. A text book study of the usual subjects. The courts of Massachusetts. Forms of legal documents in Massachusetts. Reference to the Statutes and to decisions of the courts.

Commercial Geography: Two terms in the second year. General review of mathematical and physical geography with constant reference to effects upon commerce. A study of principal countries of the world, their surroundings, commercial history, products and trade. An examination of the facts that give rise to commerce, and some laws of political economy.

Practical Results: Very few pupils have taken the complete course. Of the classes organized in the fall of 1898, when the department was opened, and graduated in June, 1900, it is believed that every member who would accept employment has found it and given fair satisfaction. A young lady left school before graduation and creditably filled a difficult office at a salary of \$60 a month.

IX. Concluding Thoughts on High School.

Without going further into details regarding the work of the school it may be said modestly, and with a full consciousness of points of possible improvement, that Melrose has a high school of which its citizens may justly feel proud.

On the whole, in the general tone of the school, in the character of the results secured, in the earnestness of the pupils, and in the zeal and efficiency of the teachers, there is much to commend and relatively little to criticise adversely.

THE KINDERGARTENS.

At present four kindergartens are maintained at the city's expense. They are located as follows: one in the Whittier School on Franklin street, one in the Sewall School on Upham street, one in the Washington School on Lebanon street, and one in the Lincoln School on Wyoming avenue.

When the term opened in September there were five of these schools but the West Side School at the Highlands was soon closed owing to the small attendance.

In December, 1900, the total registration in these four kindergartens was 132. The total registration in grade I throughout the city at that time was 316. It is approximately correct, therefore, to conclude that under present conditions, about 42% of the pupils who enter grade I secure kindergarten training for the space of a year on an average.

A condition, as the result of which 58% of those who enter grade I do not get any advantage from the expenditure for kindergartens, while the 42 % who do receive such advantage must take up their work in grade I with pupils the majority of whom have not received kindergarten training, is not only far from ideal, but, in my judgment, is a condition that is not likely to result in the most good to the greatest number of pupils, and it presents a problem which the Committee should seriously study.

In attempting to solve this problem, it may be fairly assumed, I think, that the city cannot afford to supply the necessary buildings, teachers, and equipment to enable all

the children who enter our schools to secure a complete kindergarten training. Now, if this be so, and if the kindergarten idea in education is highly valuable, as I believe it to be, it would seem wise to arrange, if possible, so that every child who enters the Melrose schools may have the benefit of more or less of the kindergarten training, provided this can be done without materially increasing the school expenditure.

Careful and somewhat extended thought upon this subject, supplemented by some experimenting, has convinced me that the school interests of Melrose would be advanced (1) by abolishing the kindergarten as a *distinct* institution in the city, (2) by making the program of work in grade I a combination of portions of the kindergarten and first grade work, in which the major part shall be kindergarten work, (3) by putting two teachers in each first grade room,—one a trained kindergartner, the other a regular grade teacher,—and (4) by admitting no child to such work until he is approximately five years of age. It is hardly necessary at this time to attempt to demonstrate the wisdom of the above suggestion but it may not be out of place to state briefly a few reasons that have led to the above conclusions.

1. I believe that from the broadest point of view, it is not best for children, generally speaking, to be subjected to the confinement, the artificial stimulus, and the exposure of one sort and another that is incidental to attendance upon public schools, even in the kindergarten grade, at a younger age than five years.

2. I believe, also, that the present program for grade I is too severe for children of the average age of those whom we now admit to that work, and the arrangement suggested above would afford the needed modification.

3. If the plan that I have suggested should be put into

effect, it would be possible, owing to the greater maturity of the pupils, for all who enter grade I to secure practically as much of the kindergarten work as 42% now get and at an expense little, if any, greater than is called for under the present arrangement.

4. It will be readily admitted, I think, by any one who is familiar with public school work that it is impossible for one teacher to handle thirty or forty pupils in a first grade as they ought to be handled to secure anything like the results that are possible for children taught under proper conditions. In my judgment, the assignment of one teacher to a first grade of that size results in a waste of at least one-half of the pupil's time in the school. Pupils from five to six years of age are incapable of using their time advantageously in school work without constant supervision. However carefully a teacher may arrange "busy work" for those children who are awaiting their period for recitation work with the teacher, children, in the main, secure from such work little more than amusement if left to themselves. Therefore, if educational results are the primary consideration in the organization of the schools, wise economy would seem to dictate that two teachers be assigned to every first grade for all or part of the time at least. This result would be secured if the plan suggested for the combination of kindergarten and first grade work should be adopted in our schools.

Regarding the feasibility of this plan of work, it may be said that an experiment in this line has been tried in the first grade at the Winthrop School during a portion of the past year with a sufficient degree of success, notwithstanding certain abnormal conditions, to warrant the belief that the plan is entirely practicable. In support of my opinion in this matter I submit the opinion of the head teacher of

the room in which the plan has been tried, a teacher who has had both kindergarten and primary training and who is in full sympathy with the spirit of the kindergarten movement.

The following letters in this connection are self-explanatory.

MELROSE, MASS., March 11, 1901.

Dear Miss Davidson:

Will you kindly express your opinion in reply to the following questions at your convenience, and submit the same to me?

Yours respectfully,

F. H. NICKERSON.

I. Do you think that the experiment of combining kindergarten with first grade work which has been tried in your room during the present year is a practicable plan to be adopted for the first grades throughout the city?

II. Do you think that such a plan, if carefully developed and carried out, would benefit the pupils who enter our first grades more than the present plan of work for that grade?

III. Do you consider such a plan better for the school interests of the city than to have 50% of the children who enter the first grade receive training for a year in a distinct kindergarten school and the remaining 50% enter without any such training?

MELROSE, MASS., March 12, 1901.

F. H. NICKERSON, Superintendent of Schools.

Dear Sir:—Replying to your questions sent me under date of March 11, in the order in which they were put, I would say: (1) I do. (2) Yes. (3) Yes.

Respectfully,

GENEVA B. DAVIDSON.

For the reasons that I have briefly stated I would suggest that the committee investigate the merit of the above mentioned plan at an early date.

MUSIC, DRAWING AND PHYSICAL TRAINING.

For information regarding the work of the year in these

lines, I would refer the Committee to the reports of the special directors of these branches.

REPORT OF THE SUPERVISOR OF MUSIC.

MR. F. H. NICKERSON, Superintendent of Schools :

The work in music in the schools for the past year has steadily improved along all lines. The teachers have come to realize, I think, their need of more musical knowledge and better preparation for the work if the best results are to be secured. To meet the need in this respect a series of monthly meetings for all the grade teachers for general musical study and vocal work was started late in the fall, but these meetings had to be dropped a little later as the Extension Course Lectures occupied the High School Hall on our meeting days. Their value, I think, was obvious to all, and they will doubtless be gladly resumed when opportunity offers.

When teachers have but one hour a week to devote to music, they must surely know how to use this time to the very best advantage if results are to be obtained. While I am a firm believer in grade meetings, and have held them as often as occasion seemed to justify, I believe the teacher obtains the greatest help from observation of the work of the supervisor in the school-room, if such observation be close and intelligent. No cut and dried rules, expounded at a grade meeting, can possibly apply in all grades where tone may be the weakest point in one grade, time in another, discipline in a third, etc. From such careful observation and study, I have seen some of our teachers become as proficient in their own grade work as almost any supervisor. I would not give the impression that there are no defects or weaknesses in our work, but I think all such are obvious to teacher and supervisor and are being overcome as rapidly as is possible.

The high school work for the past year has been a source of great pleasure and satisfaction to me. The coming concert of the School Chorus and Glee Club will make that apparent to all, I believe. I may be pardoned for saying, however, that, although musically I consider the making of music optional in the school a success, I still fail to see any reason why any scholar, able to take an intelligent though feeble part in the music, should be excused. The music may not need such a pupil, but he needs the music if it be of any value at all. Music is universal—it is for the many—not for the few, and having

met so many graduates of our schools who have expressed their great regret at being excused or allowed to shirk their musical work, I have come to believe a little compulsion justifiable. In spite of an easier and probably more satisfactory year in music, I should not be averse to returning to our old method.

Respectfully submitted,

GRANT DRAKE.

REPORT OF THE SUPERVISOR OF DRAWING.

MR. F. H. NICKERSON, Superintendent of Schools :

I am pleased to report that considerable progress has been made in the line of drawing during the past year. A spirit of interest and enthusiasm prevails among the teachers today that is very encouraging. Some of the teachers are giving extra study to the subject outside of the school work. This of course means better class work, for such study renders teachers better prepared to make criticisms that assist pupils to closer observation and more accurate expression. True expression must follow according to the idea of the individual. Teaching may quicken observation, but expression should be largely a free act on the part of the pupil. This may be developed in our nature study, model and object work (decorative arrangement), constructive design, decorative design, and working drawings, from the lowest grade through the high school. Acting with this idea in mind, I find there is much more to be gained by obtaining skill in one phase of study before leaving it than by skipping from one subject to another as is the custom at present in many places.

It is sometimes suggested that we are doing too much with the brush and too little with the pencil, and I am inclined to think that we are not doing as much as we ought with the pencil. In the nature study a certain part should be done in pencil, using the brush either with ink or color for the decorative arrangement and design. For pictorial and model work, the pencil is the best medium, unless for color scheme, then the brush is necessary.

I feel, also, that too many colors are being used, and for the coming year I would advocate that three colors with black and white be used and that better water-color paper and more color pans be secured. Each grade should have a full set of pans, a set of medium drawing pencils for free hand drawing, and good manila paper, white or gray,

for practise work. In the high school more casts and objects are needed. At present the supply is so limited that it is difficult to get much variety of work. The boys of this school who are taking mechanical drawing show much talent in their work. This line of work is especially valuable to those who intend to go to the Institute of Technology. Two of the classes are rather large to work with as it is almost impossible to give individual criticism which is so necessary for getting good results in the work. In one of the classes both mechanical and free-hand drawing are taught at the same time. This ought not to be as it is impossible to get satisfactory work with either division, but the classes could not be arranged differently without interference with other studies. Although drawing was made elective this year in the high school, a large number of pupils chose it for one of their studies, and I am satisfied that it is wise to continue it as an elective study.

In closing this report I wish to thank the teachers for their co-operation in the work, and the Superintendent and Committee for the courtesies they have extended to me.

Respectfully submitted,

WILLIS S. CARTER.

REPORT OF THE SUPERVISOR OF PHYSICAL TRAINING.

MR. F. H. NICKERSON, Superintendent of Schools :

The physical culture work in the high school for the fourth year pupils is the same as that of the previous year :—free-standing Swedish exercises, marching and running. In this work special attention is given to the correction of the standing position and general posture, and to the development of correct respiration.

In the advanced classes the work was varied last year by introducing fencing twice a week, and this year the girls have provided themselves with Indian Clubs, so that now the lessons consist of advanced Swedish movements the first twenty minutes, and club swinging during the remainder of the period.

Two or three pieces of apparatus would be of great value, both as to results that can be obtained from such work, and as a help in maintaining the interest of those who have already taken the work two years and a half. This apparatus could be so set up that it would not deface the room in any way.

In the lower grades the plan of work has been more satisfactorily carried out than during the previous year, the teachers knowing better how to handle the system, and the pupils being familiar with all of the elementary positions from the start.

A supervisor's work cannot be a success without the heartiest co-operation of superintendent, principals, and teachers; and, in closing, I wish to express my appreciation of the support which you have given me, and of the good spirit and interest shown by my co-workers in the grammar schools.

Respectfully submitted,

MARY V. PERHAM.

CONCLUSION.

It has not been my purpose in the foregoing report to exhaust the list of doings in the school department during the year, nor to enumerate all the steps that have been taken toward greater efficiency in the schools. I have simply presented such considerations as may indicate the general policy and spirit that have controlled in the work of the year and, also, whether or not reasonable progress has been made in the development of a better school system in our city; and I believe that a careful and intelligent study of what has been written and tabulated will give a fair understanding of these things.

In the school report of Melrose for the year 1878, the Committee in advocating the appointment of a Superintendent of Schools made the following statement: "We trust the time will come when the town will be able to hire a school superintendent . . . and one who will be 'conservatively radical' in his changes in the school work."

Believing that the above statement which defines the characteristic wanted in a Superintendent expresses the feeling of the present committee and also of the citizens at large, I have held myself ready to receive and to advocate

any change that seemed to hold forth fair promise of betterment to the schools, while I have declined to be carried away by any spirit of unrest or experiment so far as to advocate policies the wisdom of which is largely in doubt.

No one connected with the school department could have felt more keenly than myself the loss that the department sustained in the death^{of} of Capt. John C. Maker near the close of the school year in June. His position as chairman of the school board brought us into close working contact and gave me an excellent opportunity to appreciate the earnestness and self sacrifice that characterized him in the discharge of his official duties. His long experience in connection with the committee and his devotion to the interests of the schools made him an unusually valuable official for the city, and his loss will long be felt by his fellow-workers. I deem it fortunate that it was possible to secure for his successor, Mr. George H. Hill, a man of large and successful business experience.

With a high appreciation of the favorable conditions as to committee, teachers, pupils and community under which my work is being performed, this report is respectfully submitted.

F. H. NICKERSON,
Superintendent of Schools.

APPENDIX.

a. PROGRAM OF HIGH SCHOOL GRADUATION.

b. FRANKLIN FRATERNITY PRIZES.

c. MELROSE WOMAN'S CLUB HONORS.

d. PROGRAM OF NINTH GRADE GRADUATION.

e. ORGANIZATION OF SCHOOLS.

"Not in Saying, but in Doing."

MELROSE HIGH SCHOOL.

GRADUATING EXERCISES,

CLASS OF 1900,

CITY HALL, EVENING OF JUNE TWENTY-SEVENTH, AT 8 O'CLOCK.

PROGRAM.

CHORUS, "Festival Hymn," *Buck*
SCHOOL.

ADDRESS, "Four Ideals of Life Compared,"
REV. A. A. BERLE, D. D.

CHORUS, "Recessional," *Schnecker*
SCHOOL.

AWARD OF PRIZES GIVEN BY FRANKLIN FRATERNITY.

GIRLS' CHORUS, "The Miller's Song," *Zollner*

PRESENTATION OF DIPLOMAS,
FRED H. NICKERSON, SUPERINTENDENT OF SCHOOLS.

CHORUS, "The Old Guard," *Roaney*
SCHOOL.

GRADUATING CLASS.

Allen, Stanley Whitman	King, Louise Beatrice
Barrett, Martha Eldridge	Lang, Edward Copeland
Bayne Katherine Drummond	Lewis, Clarence Waterman
Berry, Lucy Clark	Lewis, Lillian Grade
Botsford, Emma Florence	Lucas, Mary Amanda
Carr, Georgina Everett	Marsh, Clarence Edward
Chapin, George Halliday	McLaughlin, Percy Little
Chapin, Chester Lawrence	Munroe, Abbie Davis
Cloudman, Mabel Inez	Owen, Bessie Mayo
Cobb, Alma Garfield	Patch, Marie
Copeland, Ralph Heber	Proctor, Marion Louise
Colby, Grace Adams	Reed, Horace Neilson
Crane, Max	Rice, Mabelle Gertrude
Crawford, Gertrude Hester	Robinson, Edward Kilburn
Danforth, Pitt William	Snow, Minnie Louise
Damon, Arthur Herbert	Stevens, Charles Wilde
Gerry, Everett Stearns	Stickney, Mardelene Zixola
Gile, Gertrude	Stebbins, Charles Henry
Grady, Alice Catherine	Stewart, Minnie Mae
Hammond, Ardelle Percy Cate	Stafford, Roy Davis
Harding, Reynold Munroe	Thompson, Emma May
Hodge, William Edward	Woodman, Helen Stanton
Jones, Alfred Wilde	Whorf, Alta Elizabeth

CLASS HONORS.

*Mary Amanda Lucas.

*Georgina Everett Carr.

HONOR LIST.

CLASS OF 1900.

Georgina E. Carr.

Gertrude Gile.

Grace L. Lewis.

Mary A. Lucas.

Minnie L. Snow.

CLASS OF 1901.

Blanche M. Brickett.

Marion L. Hatch.

Marion C. Leighton.

Wallace N. MacBriar.

Arthur E. Small.

*Equal rank for four years.

CLASS OF 1902.

Joy M. King.

Arthur B. Marsh.

Aimee E. Spurr.

Lester R. Talbot.

Harold A. Whitman.

CLASS OF 1903.

Stella M. Durrell.

Clara A. Foss.

Philip L. Gile.

Mary F. Joslyn.

Walter S. Rowe.

FRANKLIN FRATERNITY PRIZES, JUNE, 1900.

MATHEMATICS.

Robert Francis Luce, 1901.

Lester Raymond Talbot, 1902.

Stella May Durrell, 1903.

ENGLISH.

Alta Elizabeth Whorf, 1900.

Arthur Everett Small, 1901.

Aimee Elizabeth Spurr, 1902.

Barnard Powers, 1903.

MELROSE WOMAN'S CLUB HONORS.

Georgina Everett Carr.

Minnie Louise Snow.

"Onward and Upward."

GRADUATION EXERCISES
OF THE
MELROSE GRAMMAR SCHOOLS,

Class of 1900,

CITY HALL, MELROSE,

THURSDAY MORNING, JUNE 28, 1900, AT 10 O'CLOCK.

PROGRAM.

1. MUSIC, "Six o'clock in the Bay," *Watson*
SCHOOL.
2. INVOCATION.
3. MUSIC, "Benedictus," *Gounod*
SCHOOL.
4. DECLAMATION, "The Teachers of Mankind," . .
ALBERT AUGUSTINE McNALLY.
5. READING, "How He Saved St. Michael's," . .
KATHERINE CHENEY WASHBURN.
6. PIANO SOLO, "Second Mazurka," *Godard*
CHRISTINE JEWETT HUNTLEY.
7. ESSAY, "A Trip through Switzerland," . . .
ETHEL GERTRUDE GOULD.

8. READING, "The Night Run of the 'Overland,'" . . .
MABEL FLORENCE JACKSON.
9. MANDOLIN DUET, "Valse de Concert," . . . *Barnard*
HAROLD RICKER MCKENNEY AND VIRGINIA ROSE DECECCA.
10. ESSAY, "Pictures and Poems,"
FLORENCE MABELLE HURD.
11. DECLAMATION, "True Manliness,"
EDSON BURNELL SMITH.
12. GIRLS' CHORUS, "The Summer Day," *McCabe*
THIRTY PUPILS FROM THE LINCOLN SCHOOL.
13. ORIGINAL DECLAMATION, "The Nineteenth Century,"
HERBERT ALEXANDER SPEARS.
14. ESSAY, "Education from a Historical Standpoint,"
FLORENCE MAY CHILD.
15. CORNET SOLO, "The Lizzie Polka," *Hartman*
GODFREY WILSON MCMULLIN.
16. PRESENTATION OF DIPLOMAS.
17. MUSIC, "Call to Arms," *Veazie*
SCHOOL.

GRADUATES.

Arthur Rowe Anderson	Ernest Orrin Blades
*Carl Eugene Anderson	*Angie Merrill Blanchard
*Willam Harold Anderton	Ella Muriel Brown
*Mary Alice Atwood	*Charlotte Packard Bullen
*Mary Esther Barrett	*Elizabeth Merrill Bunce
*Theresa St. Agnan Barrett	*James Herbert Bunce
*Persis Bartholomew	*Ichabod Bunker
*Helen Valeska Bary	Patrick Joseph Callahan
*Serena Rose Blodgett	*George Abram Campbell

- *Philip Barrett Carter
- Mary Agnes Casey
- *Florence May Child
- Henry William Chisholm
- *Mabel Ethel Clarke
- *Harry Warren Clark
- *Clifford Nelson Cochrane.
- *Richard Lewis Collins
- Helen Josephine Collins
- Charles Wood Critchett
- *Frederick Curry
- *Alice Anna Dalrymple
- *Paul Bloomfield Davis
- *Virginia Rose DeCecca
- *Julia Thorndike Dennis
- *Arthur Williston Dillaway
- Elizabeth Mary Dickenson
- *Maria Cecilia Duff
- *Leslie Burton Ellis
- *Faith Elizabeth Emery
- *Fred Mosher Etter
- Sephronia Evelyln Fairman
- *George Rossiter Farnum
- *Florence Lizzie Fields
- *Florence Lillian Flint
- *William Cumner Folsom
- *Louise Forrest
- *John Howard French
- *Herbert Thurston Gerrish
- *Louise Waters Gerrish
- *Edith Mabel Gerry
- Annie Marion Goodridge
- *Ethel Gertrude Gould
- *Lawrence Dudley Gould
- *Robert Montgomery Haines
- *Florence Mabel Hamlin
- *Gilbert Nathaniel Harris, Jr.
- Lila Ingles Harris
- *Evelyn May Harris
- Victoria Margaret Haszard
- *Donald Heath
- *Aubrey Flawith Hills
- Dorothea Theresa Holthaus
- *Christine Jewett Huntley
- *Florence Mabelle Hurd
- *Mabel Florence Jackson
- *Mary Louise Keating
- *Howard Russell Keeney
- *Louise Alice Kings on
- *Ethel Jean Leavitt
- Mabel Charlotte Leigh
- Louis Wilbur Levia
- *Elene Russell Lewis
- *Edward Miles Little
- *Alfred Robert Loring
- Helena Farrell Magner
- Timothy John Mahoney
- *Harold Ricker McKenney
- *Godfrey Wilson McMullin
- *Albert Augustine McNally
- *Robert William Mosher
- *Walter Holmes Munro
- *William Irving Nickerson
- *Marion Elizabeth Nute
- Alice Cecelia O'Brien
- *Harriet Louise Ormsby
- *William Lydston Orton
- *Fred Newton Peirce
- *Rolland Leo Perry
- *Eliza Jane Philpot
- *Helen Frances Power
- Annie Rachel Rackam
- Effie Elizabeth Read
- *Lilla Harriet Reed
- *Harry Isaac Reed
- *Bessie Saville Russell
- *Winifred Warren Sawyer
- *Alfred William Scanlan

*Gerald Norton Schoonmaker

*Ethel Merrill Simpson

Marguerite Sinclair Simpson

*Charles Arthur Singer

*Edson Burnell Smith

*Herbert Alexander Spears

*Marion Harriet Stafford

*Maida Eddy Stowe

*Florence Gertrude B. Stuart

*Bessie Marion Sweetzer

Edna Justina Sweetzer

*Segrid Henrietta Swensson

*Bertha Elvira Swensson

*Ada Florence Tobey

*Ellen Gertrude Tooney

*Leigh Northup Vaughan

*William Clifford Verge

*Katherine Cheney Washburn

*Ralph Clements Weeks

*Jennie Gertrude Whitehead

*Reginald Harold White

*Caroline Gertrude Whitney

*Gilbert Edward Young

*Entered High School in September.

ORGANIZATION OF THE PUBLIC SCHOOLS,

Dec. 31, 1900.

Superintendent of Schools.

FRED H. NICKERSON, 492 Lebanon Street.

Superintendent's Clerk,

HELEN L. BURR, 119 Wyoming Avenue.

CORPS OF TEACHERS.

HIGH SCHOOL.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
William C. Whiting.....	Principal.....	Dartmouth College.....	1899
Alonzo G. Whitman.....	Prin. Emeritus,	Bowdoin College	1874
Everett H. Scott.....	Sub-Master....	Wesleyan University.....	1898
Hubert G. Shaw	Science Dept..	Harvard College.....	1897
Hugh G. Greene	Com'l Dept....	Albany Business College....	1898
Adelma A. Ballou.....	Assistant.....	Dean Academy	1887
Harriet C. Fairbanks.....	Assistant.....	Natick High School.....	1880
Annie C. Merritt.....	Assistant.....	Hanover (Germany) Normal School, Cours Sevigne Paris.....	1897
Hattie G. Ricker.....	Assistant.....	Lapham Institute.....	1884
Jennette Moulton.....	Assistant.....	Wellesley College.	1899
Margaret McGill	Assistant.....	Mt. Holyoke College.....	1900
Helen M. Armstrong.....	Assistant.....	Boston University	1900

FRANKLIN SCHOOL, COR. MAIN AND FRANKLIN STS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED
Frank L. Titcomb.....	Prin. IX	Brown University	1897
Mary J. George.....	Prin. Asst.....	Wakefield, Mass. High School.	1880
J. Helen Bartholomew	VIII	Boston Univ., Salem Normal .	1896
Alma J. Guptil	VII	Girl's High School, Boston...	1884
Elizabeth M. Collins.....	VI.....	Gorham, Me., Normal School.	1899
Alice C. Day.....	VI.....	Salem, Mass., Normal School .	1900
Nora P. Nason	V.....	Gorham, Me., Normal School.	1899
Minnie F. C. Snow	IV	Orono, Me., High School.....	1892
Isabelle L. Atwood.....	III	Robinson Seminary, Haver- hill Training School....	1892

WASHINGTON SCHOOL, COR. LEBANON AND LYNDE STS.

Herbert L. Rand.....	Principal IX...	Bridgewater Normal School..	1898
Harriet H. Dowe.....	Prin. Asst.....	Mt. Holyoke College.....	1894
Nina A. Duley..	VI.....	Farmington, Me., Normal Sch'l	1900
Etta J. Call	V.....	Ellsworth, Kan., Normal Inst.	1890
Lavinia W. Smallwood	IV.....	Bridgewater Normal School..	1899
Mary L. Loring.....	III.....	Salem Normal School	1897
Hattie D. Field	II.....	Boston Normal School	1891
Mary A. Bailey	I.....	Miss Wheelock's Kind. Tr. Cl.	1896
Maud E. Brown.....	Kindergarten..	Miss Garland's Kind Tr. Cl..	1900
Fanny L. Warren.....	Kind. Asst....	Miss Symonds' Kind. Tr. Cl..	1898

LINCOLN SCHOOL, WYOMING AVE.

G. Alvin Grover.....	Principal IX...	Bridgewater Normal School..	1898
Annie M. C. Washburn.....	Prin. Asst....	Wellesley College.....	1900
Cora S. Burleigh.....	VII.....	Farmington, Me. Normal Sch'l	1900
Mary R. Clarke.....	VI.....	Franklin Academy....	1894
Minnie R. Donaldson.....	V.....	New Britain Normal School..	1899
Harriet A. Saunders.....	IV.....	Malden High School.....	1898
Lena D. Marshall.....	III & II.....	Salem Normal School.....	1900
Frances B. Brown.....	I.....	Exeter, N. H., Training Sch'l	1899
Grace A. Lynde.....	Kindergarten..	Miss Page's Kind. Tr. School.	1897

HORACE MANN SCHOOL, COR. GROVE AND MYRTLE STS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED
Alice M. Swett,.....	Principal VIII.	Plymouth, N. H., Normal....	1882
Mary S. Wentworth,.....	Prin. Asst.	Wakefield, N. H., Academy..	1896
Naomi E. Stevens.....	VII	Gorham, Me., Normal Sch'l..	1899
Maud Nickerson	VI.....	Boston University	1897
A. Louise McCormick.....	V.....	High Sch'l Wheaton Sem.Lect.	1891
Anna W. Atkins	IV	Provincetown High School...	1897
Nellie C. Dempsey.....	III.....	Salem Normal School.....	1891
Olie B. Burgess.....	II.....	Bridgewater Normal School..	1899
Annie G. Balch.....	I.....	Wakefield High School.....	1900

D. W. GOOCH SCHOOL, COR. FOSTER AND FLORENCE STS.

Augustus O. Burke	Principal VIII.	Bridgewater Normal School..	1898
Lydia Mendum, Assistant..	Prin. Asst.	Salem Normal School.....	1874
Mae Goodwin	VIII & VII..	Gorham, Me. Normal School.	1900
Alice H. Long.....	VI.....	Boston Normal School	1877
Lois M. Holmes.....	V.....	Melrose High School.....	1896
Mary E. Nye.....	IV	Bridgewater Normal School..	1885
Catherine E. Smith.....	III.....	Salem Normal School.....	1889
Amelia F. Trowbridge.....	II.....	Melrose High School.....	1889
Annie P. Long.....	I.....	Melrose High School.....	1894

MARY A. LIVERMORE SCHOOL, MAIN ST.

Eva R. Crane	Principal VIII.	Coburn Classical Institute....	1899
Ethel Clark.....	Assistant.....	Salem Normal School.....	1900
Louise G. White.....	VII	Salem Normal School.....	1895
Inez A. Hunt.....	VI.....	Farmington, Me., Normal....	1898
Lucy E. Shute.....	V.....	Pinkerton Academy.....	1895

JOSEPH WARREN SCHOOL, WARREN ST.

Alice J. Coffin.....	Prin. V & IV..	Gorham, Me., Normal Sch'l..	1895
Ethel Clark.....	Assistant.....	Salem Normal School.....	1900
Mary E. Tupper.....	III.....	Framingham Normal School..	1892
Ruth M. Knowles.....	II.....	Mt. Holyoke College.....	1894
Margaret E. Grady.....	I.....	Salem Normal School.....	1896

WINTHROP SCHOOL, COR. ELEVENTH AND FIRST STS.

NAME.	GRADE.	WHERE EDUCATED.	WHEN ELECTED.
Edith S. Dermot.....	Principal IV...	Framingham Normal.....	1896
Annie Dinnie.....	III.....	Quincy Training School.....	1900
Grace C. Albee.....	II.....	Wellesley College.....	1898
Geneva B. Davidson.....	I.....	Miss Page's Kind. Tr. Cl.....	1899

WHITTIER SCHOOL, FRANKLIN ST.

Jeannette A. Doane.....	Principal I	Templeton, Mass., High Sch'l	1895
Gertrude B. Stewart	II.....	Melrose High School.....	1894
Mary G. Ellis.....	Kindergarten..	Miss Symonds' Kind. Tr. Cl..	1897
Mabel Price	Kind. Asst.....	Miss Symonds' Kind. Tr. Cl..	1897

SEWALL SCHOOL, UPHAM STREET.

Martha A. Briggs	Principal IV ..	Edw. Little High, Auburn ...	1898
Barbara S. Fellows.....	III, II	Leom'nster High School.....	1897
Arline Merrill.....	I.....	Melrose High School.....	1894
Marion Leslie.....	Kindergarten..	Miss Symonds' Training Class.	1897
Bertha W. Leighton.....	Kind. Asst	Miss Wheelock's Kind. Tr. Cl.	1899

CONVERSE SCHOOL, FELS.

Anastatia G. Riley	I, II, III.....	Salem Normal School.....	1898
Mabel G. Gilbride.....	Assistant.....	Quincy Training School.....	1900

RIPLEY SCHOOL, SWAIN'S POND AVENUE.

Mary A. Chisholm.....	I, II, III.....	Salem Normal School	1896
-----------------------	-----------------	---------------------------	------

SUPERVISORS.

Grant Drake.....	Music	1891
Willis S. Carter.....	Drawing	1891
Mary V. Perham.....	Physical Culture	1899

JANITORS.

NAME.	SCHOOL.	RESIDENCE.
George A. Beckford.....	Ripley	Off Swain's Pond Avenue.
James Fahey	Warren and Whittier...	62 School Street.
George E. Fogg.....	High.....	38 East Foster Street.
Samuel Lear.....	Franklin	Main Street, Highlands.
William A. Livingstone...	Winthrop.....	Third Street.
Henry S. Payne.....	Washington	Albion Street, Highlands.
Thomas Ray.....	Converse	7 Brazil Street.
Charles W. Rogers	Lincoln	2 Fields Place.
John Thyng.....	Gooch and Mann.....	43 Winthrop Street.
Isaac C. Weeks	Livermore and Sewall..	22 Winthrop Street.

ENGINEER IN HIGH SCHOOL.

Charles Brown.....50 Porter Street.

 IN SCHOOL COMMITTEE,

MELROSE, March 12, 1901.

Voted, That the annual report of the Superintendent of Schools be accepted and printed as the report of the School Committee.

F. H. NICKERSON,
Recording Secretary.

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COLLECTOR'S REPORT.

JANUARY 1, 1901.

To the Honorable Board of Aldermen, City of Melrose:

GENTLEMEN:—I herewith submit the first "annual January report."

TAX 1900.

Warrant,	\$237,310 57
Additional,	1,800 05
Interest,	72 26
	<hr/>
	\$239,182 88
Abatements,	3,193 70
	<hr/>
	\$235,989 18
Paid treasurer,	122,495 70
	<hr/>
Uncollected,	\$113,493 48

TAX 1899.

Warrant,	\$222,702 39
Additional,	1,268 72
Interest,	3,931 77
	<hr/>
	\$227,902 88
Abatements,	3,830 75
	<hr/>
	\$224,072 13
Paid treasurer,	217,361 26
	<hr/>
Uncollected,	\$6,710 87
Collected on sidewalk assessments,	6 80
Paid to treasurer,	6 80

TAX 1898.

Warrant,	\$215,714 90
Additional,	1,243 81
Interest,	4,769 23
	<hr/>
	\$221,727 94
Abatements,	3,636 40
	<hr/>
	\$218,091 54
Paid treasurer,	217,262 57
	<hr/>
Uncollected,	\$828 97

Warrants have been issued on this tax, and also a reissue of warrants.

TAX 1897.

Balance of warrant,	\$221 63
Abatements,	17 12
	<hr/>
	\$204 51
Paid treasurer,	24 05
	<hr/>
Uncollected,	\$180 46

Warrants have been issued on this tax.

TAX 1896.

Balance of warrants,	\$146 96
Abatements,	9 14
	<hr/>
	\$137 82
Paid treasurer,	13 11
	<hr/>
Uncollected,	\$124 71

Warrants have been issued on this tax.

TAX 1895.

Balance on warrant,	\$48 66
Abatements,	4 00
	<hr/>
	\$44 66
Paid treasurer,	9 12
	<hr/>
Uncollected,	\$35 54

Warrants have been issued on this tax.

STREET WATERING 1900.

Collected,	\$2,113 50
Paid treasurer,	\$2,110 50
Balance,	3 00
	<hr/>
	\$2,113 50

STREET WATERING 1899.

Collected,	\$1,329 14
Paid treasurer,	\$1,327 04
Balance,	2 10
	<hr/>
	\$1,329 14
Collected on sewer assessments, total,	\$88,191 68
Paid treasurer,	\$88,183 58
Balance,	8 10
	<hr/>
	\$88,191 68

COLLECTION ON REDEMPTION OF 1898 TAKING.

Collected,	\$1,167 20
Interest,	51 75
	<hr/>
	\$1,218 95
Paid treasurer,	\$1,218 95

Collected for rent of city hall,	\$55 00	
Paid treasurer,	\$55 00	
Collected water rates,	\$35,619 41	
Paid to treasurer,	\$35,306 77	
Paid on Refunds,	311 83	
	<hr/>	
	\$35,618 60	
Balance,	81	
	<hr/>	
		\$35,619 41

Respectfully,

JAMES W. MURRAY,
City Collector.

BOARD OF HEALTH REPORT.

To the Honorable the Board of Aldermen:

The board of health respectfully submits herewith the eleventh annual report, it being the first since Melrose became a city.

Early in the year Drs. John E. Sanborn and C. W. Harlow retired, the former after eight years of faithful and efficient service as chairman.

MEMBERSHIP AND ORGANIZATION.

The present membership and organization is as follows: Clarence P. Holden, M. D., chairman; William H. Dole, secretary; Paul H. Provandie, M. D., physician to the board.

The important office of inspector of plumbing has been filled as for two years past by Mr. John T. Barker, with satisfaction to the board.

Dr. F. P. Sturges, V. S., inspector of animals and provisions, is the agent of the board for the purpose of performing the duties specified in Chap. 408 of the Acts of 1899.

MEETINGS.

The board has held stated meetings on the first and third Tuesdays of each month, besides many special meetings.

REGULATIONS AND ORDINANCES.

In March the board, with the approval of the mayor, adopted new regulations, and the by-laws and regulations as to house plumbing have been superseded by Chap. XIX of the ordinances. The ordinances on licenses and stables have placed many new duties upon the board.

LICENSES AND PERMITS.

Licenses and permits have been granted as follows, viz.: 57 permits to hawkers and peddlers of food products; 16 permits to keep swine (almost all in the southeast part of the city); 2 permits to keep cows; 1 license to collect grease; 1 license to clean cesspools and vaults (to Christian L. Hoffman). Seven licenses to undertakers, viz: No. 1, John J. McCullough; No. 2, S. W. Harvey; No. 3, John H. Gately; No. 4, Oliver Walton & Son; No. 5, Ansel B. Pierce & Son; No. 6, F. T. Churchill; No. 7, Ella G. Churchill.

Fees received for licenses and paid to the city treasurer, \$49.00; fees received for licenses of plumbers and paid to city treasurer for use of the board of health, \$15.50; balance of plumbers' fees for 1899, \$5.70; total, \$21.20.

CONTAGIOUS DISEASES.

There has been a considerable increase in the number of cases of contagious diseases, yet at no time has any disease been epidemic. In line with most of the cities and many towns of the commonwealth the regulations of the board now require the evidence of a negative culture for release from quarantine of all cases of diphtheria. The board also earnestly recommends their use for purposes of diagnosis in all doubtful cases. The evidence is conclusive that in some instances failure to adopt this method was responsible for many subsequent cases, loss of life and large expense.

Culture tubes have been constantly on hand, and forwarded to the state board at public expense. Doubtless in the near future Melrose will find it wise to establish a bacteriological laboratory.

The board has fully supplied physicians with the antitoxine furnished by the state board of health for patients unable to pay for it. There has been no death from diphtheria where this remedy was used early in the case.

The board has adopted the use of formaldehyde gas as a disinfecting agent, and requires its use in all cases of diphtheria and scarlet fever before the release from quarantine.

CONSUMPTION.

Consumption being now recognized as an infectious disease, the board issued a circular giving information to consumptives and those living with them of the best means of protection. The board requires disinfection of rooms after death and requests physicians to report all cases to the board.

CONTAGIOUS DISEASES HOSPITAL.

The board addressed the mayor by communication of date Nov. 16th, 1900, setting forth the need of a contagious diseases hospital, in which they quoted from the unpublished report of the board for 1899 showing the great need of such hospital, and showing an expense to the city of \$82.70 for one case in quarantine 12 days. In 1900 three cases of scarlet fever in quarantine 63 days cost over \$300.

STATISTICS.

TABLE I.

CONTAGIOUS DISEASES REPORTED TO THE BOARD OF HEALTH
IN 1900.

DISEASE.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Totals.	Deaths
Scarlet Fever.....	13	7	9	4	2	2	0	0	1	0	0	0	38	3
Typhoid Fever.....	0	0	2	0	1	3	3	0	5	3	2	0	19	1
Diphtheria.....	3	14	9	7	2	1	3	1	1	0	0	3	44	5
Measles.....	7	15	21	19	15	36	10	0	1	0	2	1	127	0
Totals, .....	...	...	...	...	...	...	...	...	...	...	...	...	228	9

TABLE II.

CONTAGIOUS DISEASES SINCE 1890.

DISEASE.	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Scarlet Fever.....	36	27	59	93	32	33	25	23	20	19	38
Diphtheria.....	17	52	18	15	31	41	19	16	5	8	44
Typhoid Fever, .....	..	...	...	...	...	...	9	3	0	13	19

TABLE III.

MORTALITY FROM PRINCIPAL DISEASES SINCE 1890.

DISEASE.	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900
Diphtheria.....	1	8	2	3	10	6	2	2	0	0	5
Scarlet Fever,....	0	0	3	5	1	2	1	0	1	1	3
Typhoid Fever, ..	0	3	6	0	5	4	2	2	1	6	1
Consumption.....	15	11	19	19	20	13	24	20	24	16	20
Pneumonia.....	10	13	9	17	20	7	9	23	12	19	14
Heart Diseases,....	9	12	15	12	26	14	22	19	20	18	27
Old Age,.....	2	8	9	8	8	5	11	6	11	9	9

MORTALITY FOR YEAR 1900.

(Bertillon Classification.)

Class I. General Diseases.

Typhoid Fever,	1
Scarlet Fever,	3
Diphtheria,	5
Intermittent Fever,	1
Tuberculosis or Consumption,	20
Cancer,	10
Rheumatism,	1

Class II. Diseases of Nervous System.

Meningitis,	2
Progressive Locomotor Ataxia,	1
Cerebral Haemorrhage,	11
Softening of Brain,	4
Paralysis, etc.,	3
General Paralysis,	1
Other diseases of nervous system,	1

Class III. Diseases of Circulatory System.

Disease of Heart,	27
-----------------------------	----

Class IV. Diseases of Respiratory System.

Bronchitis,	2
Broncho-Pneumonia,	8
Pneumonia,	14
Other diseases,	2

Class V. Diseases of Digestive System.

Disease of Stomach,	1
Diarrhoeal diseases,	6
Hernia,	1
Disease of Intestines,	3
Disease of Liver,	2
Peritonitis,	2
Other diseases,	3

Class VI. Diseases of Genito Urinary System.

Acute Nephritis,	1
Bright's disease,	10
Uterine Tumours	1

Class VII. Puerperal Diseases.

Puerperal Septicemia,	2
Puerperal Albuminuria and Eclampsia,	1

Class XI. Infantile Diseases, 15

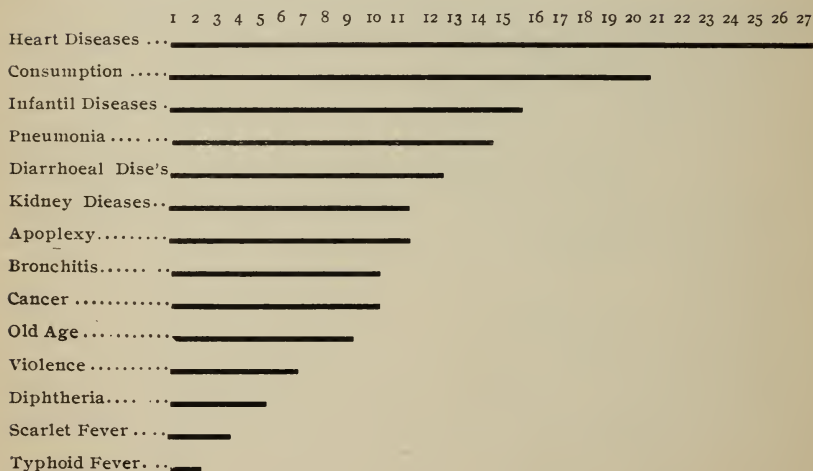
Class XII. Senile Debility, 9

Class XIII. Deaths by Violence.

Suicide,	2
Other violence,	4
<i>XIV Unknown and Ill Defined,</i>	8
Premature Birth,	4

Total,	194
Estimated Population,	12,964
Rate per 1000,	14.95
Stillborn,	3
Non Residents dying in Melrose,	17

DIAGRAM SHOWING PRINCIPAL CAUSES OF DEATH IN 1900.



NUISANCES.

The following is a list of nuisances abated by notice of the board, not including some abated upon request of individual members.

Manure exposed,	8
Nuisances on land and premises,	34
Emptying cess-pools on land,	6
House drainage flowing on the land,	6
House drainage flowing into cellars,	3
Cesspool nuisances,	78
Cesspool order to build larger,	14
Privy nuisances,	96
Privy to build larger vault,	16
Filthy premises,	17
Filthy premises ordered vacated,	4
Use of water closets without water,	5
Animals and hens in dwellings and cellars,	5
Keeping pigs without permit,	3
Changes ordered in unsanitary plumbing,	26
Sewer connections by order of board,	69

SEWER CONNECTIONS.

While no statistics in comparison with other suburban cities are available, the board believes that Melrose compares very favorably with her neighbors in this respect. There have been about 1,920 buildings connected with the public sewer so far. Some streets are wholly connected, and many more have but a small number of houses unconnected.

From the fact that the city has expended \$360,000 for sewers and that such a large number of houses are connected, the board has felt warranted in ordering some connections for the general welfare. There are, however, some places especially obnoxious, from outside privies or from a central location which should not receive any further toleration.

NEW SEWERS.

The board represents that sewers are needed in the follow-

ing streets: Pearl street, Boardman avenue, Frost avenue, Hawes avenue, Highland avenue east of Main, Greenleaf place and Howie court, Haverhill place, Union street, Ashland street south of Melrose street, Brazil street and Good-year avenue.

SURFACE DRAINAGE.

From the sanitary view point the board earnestly commends surface drainage.

SCHOOL HOUSES.

While many cities are complaining of lack of accommodations, over-crowding, poor sanitary arrangements, etc., the board thinks Melrose may well be congratulated that she has ample accommodation for all her children in well ventilated and well lighted rooms, and all the larger buildings except one having connection with the public sewer. From an examination the board commends the general cleanliness of the school buildings of the city.

The board does not approve of the use of common drinking cups and has so advised the honorable school committee.

The board hopes to have apparatus for testing the plumbing in old buildings or buildings in use, and that it will be specially of use in the school buildings, where so many children are constantly associated.

DRINKING FOUNTAINS.

Owing to numerous cases of glanders in horses, the board asked the engineer and superintendent of public works to order all said fountains cleaned at least once a week.

COLLECTION OF ASHES AND PUBLIC DUMP.

The board recommends that the city should undertake the collection of ashes as well as garbage, and recommends that sufficient lands of the city be placed in the care of the board for a public dump.

GARBAGE.

Mr. Thomas R. Higgins collects garbage, under contract, with general satisfaction to the board and few complaints from householders.

INSPECTION OF BAKERIES.

Bakeries have been inspected as the law provides. They were found in general in good condition and some changes recommended by the board were promptly made.

The thanks of the board are due and are hereby tendered to other departments for courtesies and services rendered.

CLARENCE P. HOLDEN.
WM. H. DOLE.
PAUL H. PROVANDIE.

Dated Jan. 28th, 1901.

Report of the Board of Examiners of Plumbers.

To the Honorable Board of Health:

GENTLEMEN: In accordance with Chap. 455 of the Acts of 1894, the board of examiners of plumbers respectfully submit the seventh annual report. During the year 1900 there have been issued by this board the following number of licenses: Granted to master plumbers upon examination, 1; re-issued to master plumbers, 10; granted to journeyman plumbers upon examination, 3; re-issued to journeyman plumbers, 14; cash received for same and paid to board of health, \$15.50.

Respectfully submitted,
CLARENCE P. HOLDEN.
W. A. GOODNO.
JOHN T. BARKER.

Report of the Inspector of Plumbing.

To the Honorable Board of Health:

GENTLEMEN: During the past year it has been, as ever, my aim and effort to perform faithfully and impartially the duties pertaining to my office, without fear or favor, having always in mind the fact that it is better to incur the displeasure of here and there an individual by refusing to approve unsanitary work than to jeopardize the health and lives of scores and perhaps hundreds of innocent children and others by allowing plumbing work to be done in an unsafe or imperfect manner in order to avoid temporary censure of persons who are ignorant or careless of the rules of sanitation.

The ordinance in regard to plumbing in this city is based upon a good, substantial theory and is in vogue in almost every city and town in the state, a little different perhaps in some respects but with the one result: "Good sanitary arrangements for the people with as little expense as possible."

The following is the table of work for the year ending Dec. 31, 1900:

No. of applications received,	341
No. of permits granted,	341
No. of sewer connections,	271
No. of cesspool connections,	9
No. of changes in construction, alteration or repair,	23
No. of new traps used in changes,	38
No. of new water closets,	160
No. of new sinks,	76
No. of new wash-trays,	58
No. of new bath-tubs,	60
No. of new wash-bowls,	59
No. of new urinals,	2
Total number new fixtures,	414

Total number new buildings,	18
Dwellings,	11
Apartment houses,	5
Business blocks,	2

I have at present writing completed about one-third of my duty in regard to the house to house inspection, and expect to be able to make full report about March 15, 1901.

The progress is slow from the fact that my time is very much broken up by office hours and inspections of plumbing, the house to house inspection being of a secondary nature.

Respectfully submitted,

JOHN T. BARKER,

Inspector of Plumbing.

ASSESSORS' REPORT.

MELROSE, Jan. 31, 1900.

Hon. John Larrabee, Mayor of the City of Melrose:

DEAR SIR: The board of assessors herewith submit their annual report for the year ending Jan. 31, 1900:

VALUATION OF THE CITY.

Buildings,	\$7,582,525 00
Land,	4,398,150 00
<hr/>	
Total real estate,	\$11,980,675 00
Personal property including resident bank stock,	797,690 00
<hr/>	
Total,	\$12,778,365 00

APPROPRIATIONS.

State tax,	\$6,645 00
County tax,	11,857 11
Metropolitan sewer tax,	9,431 01
City tax,	199,837 41
Overlayings, including	
Met. park tax est.,	9,540 04

\$237,310 57

Rate of tax per \$1,000, \$18.00

Assessed on real estate,	\$215,652 15
“ “ personal estate,	14,358 42
“ “ 3,650 polls @ \$2,	7,300 00

\$237,310 57

Number of residents assessed on property:

Individuals,	1,768
All others,	137

Total, 1,905

Number of non-residents assessed on property:

Individuals,	655
All others,	117

Total, 772

Number of persons assessed for poll tax only, . 2,715

“ “ horses,	571
“ “ cows,	182
“ “ swine,	272

VALUE OF PROPERTY EXEMPTED FROM TAXATION.

Houses of religious worship,	\$258,975 00
Literary institutions,	36,400 00
Charitable “	10,775 00

\$306,150 00

HENRY A. LEONARD,

JOSEPH EDWARDS,

FRANK R. UPHAM,

Board of Assessors.

ANNUAL REPORT OF THE
TRUSTEES OF THE MELROSE PUBLIC LIBRARY
FOR THE YEAR 1900.

The trustees of the Melrose public library respectfully present their thirtieth annual report with accompanying reports of the treasurer and of the librarian, which show the condition and disposal of all property and funds intrusted to us, and the use made by our citizens of the opportunities it has been our purpose to provide.

It may be noted that there has been a decrease of the number of books issued, but it should be remarked also that the percentage of fiction is a little lower, and that of 627 cards issued, 234 have been students' or teachers' cards. It is probable that many of the books taken out have required careful reading and have not been exchanged as frequently as in case of lighter reading.

The Melrose Highland branch of the library has now been in operation one year, and the patronage has steadily increased, showing such appreciation of the accommodation afforded it seems clearly our duty to maintain it.

We believe it advisable for the greater accommodation of the public, to extend the time during which the library shall be kept open until nine o'clock each evening, and if an increase of appropriation sufficient to cover the necessary expense is allowed, we shall adopt this rule. At present the hour for closing on three evenings in the week is six o'clock.

We have placed in the reading room some latest editions of valuable books of reference, have increased the number of magazines on file, and have subscribed for additional copies of those magazines which may be loaned on library cards so that the list of the last named now includes three copies of The Atlantic Monthly, of Scribners', Harpers', The Century, and The New England Magazines.

The five-years' lease of the rooms occupied expired dur-

ing the past year and a new lease was taken, a clause being inserted by which we reserve the right to terminate the lease upon giving six months' notice.

Your trustees are so impressed with the need of better accommodations for the library that we must hope plans for a building may become practicable in the immediate future.

It will be difficult to find shelf room for books which must be purchased the coming year; many documents are stored for lack of room for exhibiting them; we should be glad to furnish patrons of the reading room opportunity for more undisturbed study for which they ask; and we learn of exhibitions of pictures enjoyed in many cities in connection with their public libraries, at little expense, for which it is impossible for us to arrange. We feel it our duty to call attention to these facts.

Mr. Elbridge H. Goss, who has served as a trustee of the library for thirty years and as chairman of the board for seventeen years, resigned his position late in the year having been elected to a place in the city government. The carefulness and zeal with which he assisted in the selection of the first books purchased have been exercised without intermission during the intervening years. We regret the loss to our board caused by his withdrawal, knowing that his wisdom of judgment and his personal attention to details of the work have been of great value to the community.

We wish to express our indebtedness to our librarian and her assistants for the intelligent and careful service they have given, and we would thank the friends from whom gifts of books and of periodicals have been received.

For the coming year we respectfully ask an appropriation of three thousand dollars and the dog tax.

Respectfully submitted,

MARIA L. CHAPIN, Secretary.

CHARLES C. BARRY,
CHARLES A. PATCH,
RUBY F. FARWELL,
NEIL A. DIVVER,
MARIA L. CHAPIN,

MELROSE, February 1, 1901.

Trustees.

STATISTICS FOR 1900.

Number of volumes in the library Jan. 1, 1900,	12,836
“ “ purchased in 1900, . . . 487	
“ “ donated in 1900, . . . 27	
	<hr/> 514
Number of volumes in the library Jan. 1, 1901,	13,350
“ “ persons using the library Jan. 1, 1900,	5,206
“ “ cards issued in 1900, . . . 627	
“ “ “ relinquished in 1900, . . . 12	
	<hr/> 615
Number of persons using the library, Jan. 1, 1901,	5,821
“ “ students' cards issued in 1900, . . .	212
“ “ teachers' “ “ “ “ . . .	22
“ “ volumes replaced in 1900, . . .	222
“ “ “ rebound in 1900, . . .	884
“ “ magazines bound in 1900, . . .	50

Circulation.

Largest number of books issued in one day, . . .	660
Smallest “ “ “ “ “ “ “ “ (stormy) . . .	51
Largest “ “ “ “ “ “ “ month . . .	6,738
Smallest “ “ “ “ “ “ “ “ . . .	4,145
Number sent to Highlands, . . .	2,174
Total number of books issued in 1900, . . .	60,001
Number of days the library was open, . . .	306
	Per cent.
Fiction and Juvenile, 47,687	79.48
History and Travels, 3,543	5.91
Biography, 1,752	2.58
Literature and Essays, 1,550	1.54
Science and Arts, 927	2.92
Poetry and Drama, 1,105	1.14
Religion, 683	1.84
Magazines, 2,754	4.59
	<hr/>
	60,001 100.00

Reading Room.

Number of persons using reading room Jan. 1, 1901,	28,255
Largest number of visitors in one month, . . .	3,272
Smallest " " " " " " " . . .	1,605
Books brought from library for use in reading room,	766
Books taken on teachers' cards for school use, .	327

PERIODICALS IN READING ROOM.

American Agriculturist.	
American Kitchen Magazine.	
Arena.	
Adept,	Prof. C. Lourenze.
Art Amateur.	
Art Interchange.	
Atlantic Monthly Magazine.	
Birds and Nature.	
Book Buyer.	
Bookman.	
Century Magazine.	
Cosmopolitan Magazine.	
Christian Science Journal,	H C. Lawrence.
Electrical Review.	
Engineering,	W. H. Wiley.
Forest and Stream.	
Forum.	
Gartenlaube.	
Great Round World.	
Harper's Monthly Magazine.	
Harper's Bazar.	
Harper's Weekly.	
Heating and Ventilation.	
Journal of the Western Society of Engineers.	
Kindergarten Review.	
Ladies' Home Journal.	
Land of Sunshine,	F. A. Patten & Co.
L A. W. Magazine.	
Library Journal.	
Life.	

Lippincott Magazine.
 Literary Digest.
 Literary News.
 Littell's Living Age.
 London Illustrated News.
 McClure's Magazine.
 Munsey's Magazine.
 National Magazine.
 Nation.
 New England Magazine.
 North American Review.
 Outing Magazine.
 Outlook.
 Overland Magazine.
 Popular Science Monthly.
 Popular Science News.
 Protectionist.
 Review of Reviews.
 Scientific American.
 Scientific American Architect and Builder.
 Scientific American Supplement.
 Scribner's Magazine.
 St. Nicholas.
 Strand Magazine.

PAPERS IN READING ROOM.

Chicago Inter-Ocean.
 Cincinnati Gazette.
 Melrose Journal, Mr. Charles H. Adams.
 Melrose Reporter, Mr. A. W. Dunton.
 National Tribune, G. A. R.
 National Single Tax, Dr. C. P. Holden.
 New York Tribune.
 Pilot.
 San Francisco Call.
 Springfield Republican.
 Success.
 Tufts Weekly.
 Youth's Companion.

DONATIONS.

Books.

	Vols.
Acts and Resolves of Mass.,	State, 1
Atlas of Boundaries of Melrose, Topo. Survey Com.,	1
Broken Lights. F. P. Cobbe.	Miss S. A. Chever, 1
Facing the Twentieth Century. J. M. King.	
	Am. Union League Society, 1
First Mass. Vol. Heavy Artillery,	State, 1
Free Public Libraries,	State, 1
Girl at the Halfway House. E. Hough.	
	Rev. E. C. Bolles, 1
History of the 9th Mass. Vol. Infantry,	State, 1
Introduction to Astronomy. D. Olmstead.	
	Prof. C. Lourenze, 1
Jesus and Modern Life. M. J. Savage.	
	Am. Unitarian Association, 1
Religion of Evolution. M. J. Savage.	
	Am. Unitarian Association, 1
Mass. Society of Sons of the Am. Revolution.	
	Mass. Sons of Am. Revolution, 1
Mass. Soldiers and Sailors in Revolutionary War.	State, 1
Miscellaneous Writings. M. G. B. Eddy.	
	H. C. Lawrence, 1
Mass. Volunteer Aid Association,	Mass. Aid Asso. 1
More Worlds than One. D. Brewster.	
	Miss S. A. Chever, 1
Official Opinions of Attorney-Gen. of Mass.	
	Mr. C. H. Adams, 1
Official Records of Union and Confederate Navies in	
War of Rebellion,	Washington, D.C. 2
Old Records of Town of Fitchburg.	W. A. Davis, 1
Plurality of Worlds. E. Hitchcock. Miss S. A. Chever,	1
Physiology of Common Life. G. H. Lewes.	
	Miss S. A. Chever, 2
Political Economy of Natural Law.	Henry Wood, 1
Report of Com. on Education.	Washington, D.C. 1
Suffolk Surnames. N. I. Bowditch. Miss S. A. Chever,	1
Victor Serenus.	Henry Wood, 1

Pamphlets.

Number of pamphlets in the library Jan. 1, 1900,	1,978
Annual Report of the Indian Rights Association,	1
“ “ “ Adams Nervine Asylum, . . .	1
“ “ “ Elizabeth Peabody House, . . .	1
“ “ “ Lake Mohonk Conference, . . .	1
“ “ “ Abbot Public Library, Marble- head, Mass., . . .	1
“ “ “ Beverly Public Library, . . .	1
“ “ “ Brockton “ . . .	1
“ “ “ Brookline “ . . .	1
“ “ “ Enoch Pratt “ . . .	1
“ “ “ Baltimore, Md., . . .	1
“ “ “ Fitz Public Library, Chelsea, Mass., . . .	1
“ “ “ Forbes Public Library, North- ampton, Mass., . . .	1
“ “ “ Concord Public Library, . . .	1
“ “ “ Everett “ . . .	1
“ “ “ Fall River “ . . .	1
“ “ “ Hartford “ . . .	1
“ “ “ Hopedale “ . . .	1
“ “ “ Hyde Park “ . . .	1
“ “ “ Leicester “ . . .	1
“ “ “ Malden “ . . .	1
“ “ “ Manchester “ . . .	1
“ “ “ Manchester, N. H., . . .	1
“ “ “ Mercantile “ . . .	1
“ “ “ St. Louis, Mo., . . .	1
“ “ “ Newark Public Library, Newark, N. J., . . .	1
“ “ “ Newton Public Library, . . .	1
“ “ “ Northampton “ . . .	1
“ “ “ Peabody Ins., Danvers, . . .	1
“ “ “ Peabody Ins., Peabody, . . .	1
“ “ “ Philadelphia Free Library, . . .	1
“ “ “ Salem Public Library, . . .	1
“ “ “ Syracuse “ . . .	1

Annual Report of the Watertown Public Library,	.	I
“ “ “ Winthrop	“ . .	I
“ “ “ Woburn	“ . .	I
“ “ “ Worcester	“ . .	I
Annual Report on State and Municipal Taxation,	.	I
William E. Barton and His Descendants.	W. E. Barton,	I
Old Plantation Hymns.	W. E. Barton,	I
An Appeal from a Verdict of History.	W. E. Barton,	I
Reminiscences of Fugitive Slave Law Days in Boston.		
A. Bearse.	Mrs. R. F. Farwell.	I
Historians and Historical Societies.	C. F. Adams,	I
Retention of the Philippine Islands.	Hon. H. C. Lodge,	I
Human Vivisection,	.	I
Money,	.	I

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C. M. WORTHEN,
Librarian.

Report of Inspector of Animals and Provisions.

MELROSE, Feb. 11, 1901.

To the Mayor:

SIR: I have the honor to submit the following report as “Inspector of animals and provisions” for the year ending Jan. 1, 1901:

Glanders. Three cases being quarantined, all of which were condemned and killed.

Farcy. Two cases being quarantined, one condemned and killed, the other failing to react on test.

Rabies. None.

Two hundred and fourteen cows, calves, etc., being inspected, found them in good condition, only one being tuberculous, which was killed. Also inspected 51 barns and stables as to their sanitary condition, the

report of which was submitted to the Mass. board of cattle commissioners as required.

Have had no occasion to seize any provisions during past year.

Respectfully yours,

F. P. STURGES,
Inspector.

Report of the Inspector of Buildings.

MELROSE, Jan. 1, 1901.

To His Honor the Mayor and the Honorable Board of Aldermen:

GENTLEMEN: I have the honor as inspector of buildings to submit the first annual report of this department.

The building permits issued the past year exceed those of the previous year, and it is worthy of notice to compare the class of buildings which have been erected the past season with those of former years.

It is of interest to note that the estimated cost of new buildings for the year 1900 is \$74,970. These figures indicate in a measure the increased valuation of real estate in our city, although the estimate given includes only the new buildings to which should be added a certain per cent. of the cost of alterations and repairs, which is estimated at \$11,850.

The following is a table showing the number of inspections made by this department, and the character of alterations ordered when the services of the inspector have been required for the proper enforcement of the building ordinance:

Inspection of chimneys,	96
Dangerous chimneys,	96
Faulty construction of fireplaces,	3
Changes ordered in furnace pipes,	22
Changes ordered in plans submitted,	2
Buildings in dangerous condition and ordered taken down,	2
Inspection of buildings in course of construction,	200
Inspection of foundations and cellar walls,	150
Inspection of boilers,	3
Inspection of fire escapes,	27

The following table shows the number of permits granted in each ward, and the use for which they were intended:

Buildings.	Wards.							Totals.
	1	2	3	4	5	6	7	
Additions,	2	1	2	2	2	3	1	13
Alterations and Repairs,	4	2	..	..	1	5	..	12
Carriage Houses, .....	..	1	..	..	..	1	..	2
Dwellings,	1	6	..	..	2	7	4	20
Factories,	1	..	..	..	..	..	..	1
Foundations,	1	..	1	..	..	1	1	4
Heating Apparatus, .....	..	1	..	..	2	..	..	3
Stables, .....	..	..	..	..	..	..	3	3
Stores and Offices,	1	1	2	..	1	1	..	6
Storehouses, .....	..	..	1	..	1	..	1	3
Miscellaneous,	1	..	1	3	4	2	2	13
Totals,	11	12	7	5	13	20	12	80

COST OF BUILDINGS FOR THE YEAR 1900.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Ward 6.		Ward 7.		Totals.	
	New.	Repairs.	New.	Rep.	New.	Repairs.	New.	Rep.	New.	Rep.	New.	Rep.	New.	Rep.	New.	Repairs.
January, ...	\$3,500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$3,500	.....
February, ..	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,500	.....
March, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$1,500	.....	.....	.....	.....	\$250
April,	6,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,000	.....	.....	.....	13,200	100
May, .....	.....	.....	\$6,800	.....	.....	.....	.....	.....	.....	.....	4,000	.....	.....	.....	10,800	.....
June,	3,500	.....	3,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7,600	325
July, .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	875
August, ....	.....	\$300	.....	\$275	.....	\$250	.....	\$200	.....	.....	.....	.....	.....	.....	.....	1,525
September, ..	.....	700	.....	.....	.....	325	.....	320	.....	.....	.....	.....	.....	.....	12,000	1,880
October, ....	.....	3,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4,720	6,180
November, ...	.....	.....	4,000	35	\$650	1,150	\$70	.....	.....	.....	.....	\$1,650	.....	145	.....	.....
December, ..	.....	.....	10,000	75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16,000	375
	.....	.....	.....	.....	.....	200	.....	.....	.....	.....	.....	.....	.....	.....	5,300	340
Totals, ..	\$13,000	\$4,000	\$24,000	\$385	\$650	\$1,925	\$70	\$520	\$14,850	\$950	\$11,500	\$3,260	\$10,900	\$810	\$74,970	\$11,850

The following table shows the number of permits granted for each month of the year 1900.

January,	. . . . .
February,	. . . . .	1
March,	. . . . .	2
April,	. . . . .	7
May,	. . . . .	5
June,	. . . . .	10
July,	. . . . .	3
August,	. . . . .	7
September,	. . . . .	14
October,	. . . . .	16
November,	. . . . .	10
December,	. . . . .	5
Total,	. . . . .	80

EXPENSE ACCOUNT OF DEPARTMENT.

Contingent,	. . . . .	\$40 00
To Duntun & Potter, for printing:		
July 1st, 1900,	. . . . .	\$24 50
Aug. 1st, 1900,	. . . . .	3 00
Balance, Jan. 1st, 1901,	. . . . .	\$12 50

INVENTORY OF GOODS ON HAND JAN. 1, 1901.

Copies of building ordinance,	. . . . .	150
Application blanks to alter and repair,	. . . . .	405
" " " erect,	. . . . .	440
Building permit blanks,	. . . . .	473
Repair " "	. . . . .	455
Fire escape notices,	. . . . .	300
Certificate blanks,	. . . . .	480

In conclusion, I desire to express my sincere appreciation of the valuable assistance rendered me by his honor, the mayor, and the honorable board of aldermen the past year.

Respectfully submitted,

W. A. GOODNO,
Inspector of Buildings.

Report of Inspector of Milk and Vinegar.

To the Honorable Mayor and Board of Aldermen of Melrose:

Number of milk licenses issued to storekeepers,	.	48
“ “ “ “ “ “ milkmen,	. .	73
		<hr/>
		121
Amount collected (50 cents each),	. . .	\$60.50

This year for the first time laws and regulations for the milkmen and storekeepers have been printed and given to all for the regulations as to the sale and standard of the milk; and I found very few of those dealing in milk knew the state requirements for the milk.

Considerable difficulty has been experienced in finding out who were selling milk in our city as we had no records to go by. In some cases I found people have been selling milk who have never been licensed.

Last May every one who was assessed for one or more cows received from the city the rules concerning the sale of milk, and a majority of those who sell milk took out licenses—others had to be warned before they would comply with the laws.

As to the milk and milkmen who do business in Melrose: Eight complaints have been received, and of these on looking them up found three samples below the standard. The dealers on being notified saw to it that the milk came up to the requirements.

Nineteen examinations of milk have been made, and eight I found a very little under the standard, none of them more than 19° under. The milkmen have as a rule tried to meet the requirements and in only three cases have I had them refuse, and when notified that they would have to go to court they at once met the requirements.

A complete list of all those licensed, with their address, number of cows, number of teams, amount of milk sold, names of drivers I have with the signatures of the party licensed. Records of examinations I also kept and the percentages of all samples.

The vinegar sold in Melrose is of good standard and comes from very reliable concerns. No complaint has been made, and that which I examined was up to the standard. The whole amount, \$25, for the inspector of milk has not been used for the reason it would not buy all we needed to properly inspect the milk, and I purchased only the things needed. Another year to do better work a Babcock test and steam oven will be needed. As our neighboring cities are very well equipped in the matter of inspecting milk I think Melrose should not be behind in this important matter.

Yours,

WILLIAM S. BRIRY,
Inspector of Milk, City of Melrose.

January 31, 1901.

Report of the Chief of Police.

To the Honorable the Mayor of the City of Melrose:

In compliance with the city ordinance I have the honor to submit my first annual report of the doings and conditions of the department for the year ending Jan. 31, 1901.

Offences for which arrests have been made are as follows:

Assaults,	25
Assault on officer,	1
Abandoning child,	1
Breaking glass,	1
Bastardy,	1
Board of health rules,	1
Breaking and entering,	2
City ordinances,	9

POLICE REPORT.

153

Cruelty to animals,	5
Carnal abuse,	1
Default warrants,	8
Drunkenness,	58
Destroying property,	1
Disturbing religious meeting,	1
Disturbing the peace,	29
Keeping unlicensed dog,	1
Illegal transportation,	1
Larceny,	7
Malicious mischief,	6
Manslaughter,	1
Non support,	1
Neglected children,	3
Receiving stolen goods,	1
Search warrant for stolen goods,	1
Robbery,	1
Vagrants,	12
Lodgers accommodated, 13 months,	1,906

MISCELLANEOUS BUSINESS.

Accidents reported,	6
Assisted out of town officers,	7
Board of health cards put,	67
Cases investigated,	75
Cattle and horses found and returned to owners,	11
Children taken home,	11
Arc lights reported out,	98
Incandescent lights reported out,	418
Circuits, all lights out,	3
Wires down,	26
Water leaks reported,	78
Gas " "	6
Lanterns hung in dangerous places,	30
Notices delivered,	1,641
Keys found in fire alarm boxes,	6
Fire alarms attended, "officers,"	123
Doors and windows found unlocked,	111

Persons assisted home,	11
Holes in sidewalks reported,	17
“ “ streets “	52
Disturbances suppressed.	23
Fire alarms given,	16
Fires extinguished,	1
Runaway teams stopped,	5
Overflowing cesspools reported,	4
Persons found dead and reported,	1
Dogs killed,	12
Horses killed,	1
Property found and returned to owner,	\$200
Wagon calls where arrests have been made,	59
Insane persons taken to hospital at Danvers,	2
Persons taken to Melrose “	14
“ “ “ Westboro “	1
Wagon calls at fire,	3

The organization of the force consists of a chief and ten men.

Officer Charles F. W. Fogg resigned April 27, 1900.

“ Sumner H. Palmeter “ “ “

“ Louis B. Heaton appointed July 1, 1900.

CITY PROPERTY IN USE BY POLICE DEPARTMENT.

One horse,	\$150 00
“ patrol wagon,	300 00
“ democrat “	125 00
“ heavy harness,	25 00
“ light “	20 00
“ pung,	90 00
Two horse blankets,	3 00
“ robes,	7 00
One rubber blanket in patrol wagon,	1 50
Two woolen “ “ “ “	2 00
“ leather straps “ “ “	2 00
One saddle,	25 00
“ roll top desk,	8 00
“ plain “ “	8 00

Two spittoons,	\$1 00
One 6 ft. table,	6 00
“ b. w. wardrobe,	8 00
“ chiffonier,	5 00
“ drop light,	1 00
Two clocks,	6 00
12 lockers,	80 00
One measuring stick,	3 00
“ water cooler,	2 00
12 pairs handcuffs,	36 00
One “ leg irons,	6 00
15 “ twisters,	10 00
25 badges,	25 00
18 short clubs,	15 00
Eight long clubs,	8 00
15 belts,	12 00
Two lanterns,	75
Lot of rope,	15 00
Large and small buttons,	12 00
One settee,	1 50
12 arm chairs,	12 00
One office chair,	2 00
“ stool,	1 50
“ copy public statutes,	2 00
“ “ supplement public statutes,	2 00
“ “ town officer,	1 50
“ “ criminal law. Heard's.	2 00
Appropriation for the year ending Jan. 31, 1901,	\$12,484 51
Pay roll of officers,	\$11,654 11
Miscellaneous expenses,	829 81
	<hr/>
	\$12,483 92
Balance.	59

RECOMMENDATIONS.

I would respectfully recommend an officer for night duty in the office at city hall. Also the placing of a telephone at the Fells for use of the officer on that route.

CONCLUSION.

To his honor the mayor, the gentlemen comprising the committee on police, the city solicitor and all others who have in any way aided the department in discharge of their duties, I desire to tender my sincere thanks.

Respectfully submitted,

FRANK M. McLAUGHLIN,
Chief of Police.

Report of Engineers of the Fire Department.

To His Honor the Mayor and the Board of Aldermen:

GENTLEMEN:—The chief engineer herewith submits the first annual report of the fire department of the city of Melrose. It will be found to contain a "Roll" of the several companies and an inventory of all apparatus owned by the city and under the supervision of this department; a record of all fires and alarms which have occurred the past year, and the causes thereof, with the names of owners and occupants, the loss and insurance as nearly as could be ascertained, and some recommendations for the ensuing year.

ORGANIZATION.

The department consists of sixty-three men, divided as follows: Chief; two assistants; one engine company, fifteen men; three hose companies, ten men each; one ladder company, fifteen men.

I would advise the gradual increase of permanent men year by year until the whole force is placed on a permanent basis.

APPARATUS.

The apparatus is kept in the best possible condition and at present consists of the following: One steam fire engine;

four hose wagons; one ladder truck; one coal wagon; and ten hand extinguishers. There are the remains of two old hose reels which might be sold.

HORSES.

There are eight horses in service, most of them in good condition; but the service required of them soon tends to break down and render them unfit for fire duty.

HOSE.

This important branch receives constant care and attention. The past year there has been purchased 800 feet of rubber-lined cotton hose and 250 feet of house hose.

There is on hand 4000 feet of good hose, 2000 feet of fair and 1500 feet of condemned hose.

I would recommend the purchase of 800 feet of new hose the coming year, as we have a large amount of old hose that is liable to give out at any time.

FIRE ALARM.

This branch of the service has been maintained in good condition, under the care of Supt. Whidden. With the exception of unavoidable accidents it has worked to perfection. The general promptness in giving alarms has aided much in keeping the loss of property at the present low figure.

During the year there have been sixty-nine alarms, as follows: Bell alarms, 38; still alarms, 28; out of city limits, 2.

Value of property exposed to fire,	.	.	\$131,493 00
Damage to " " " "	.	.	34,277 00
Insurance on " " " "	.	.	92,200 00
Insurance paid on property damaged by fire,			26,672 00

For itemized report of expenditures see auditor's report.

REMARKS.

I wish to call your attention to the need of a fire station

on the west side of the city, in ward 3, and to locate Hose 2 there, for the better protection of that locality.

A chemical engine is needed, as it would save much damage by water.

CONCLUSION.

My acknowledgements are tendered the mayor, the heads of the several departments, and the members of the police force, for their hearty support.

To the officers and members of the several companies, and the permanent men, I wish to express my appreciation for their promptness in responding to all calls for duty, the support and good will extended to me on all occasions, and for their effort to sustain the reputation of the department.

A. WILBUR LYNDE,
Chief Engineer.

ROLL OF FIRE COMPANIES.

STEAMER AND HOSE COMPANY NO. 1, Central Station.

Name	Occupation	Age	Residence	Admitted
Capt. Thomas J. Hawkes..	Barber	44	25 Russell	July 1, 1881
Lieut. Chas. F. Woodward..	Surveyor	31	39 Upham	Sep. 2, 1890
J. Waldo Emerson	Permanent man..	56	51 Dell ave.	April 2, 1872
Thomas B. Stantial	Carpenter	65	15 Winthrop....	Dec. 7, 1875
Arthur L. Upham	Carpenter	46	253 First	Aug. 1, 1883
Dean T. Stockwell.....	Permanent man..	39	11 Upham	Nov. 3, 1891
John H. Edwards.....	Engine man	54	31 Waverly pl. ..	April 1, 1892
Charles W. Edwards	Permanent man..	30	612 Main	April 1, 1892
David R. Woodward	Carpenter	33	39 Upham	April 2, 1893
Walter M. Barrett.....	Painter.....	26	290 W. Emerson ..	April 6, 1897
Frank A. Howe.....	Laundry	43	13 Lynde	Feb. 1, 1899
William J. McCoubry	Blacksmith	34	53 Upham	Feb. 1, 1899
George A. Dean.....	Expressman	25	73 Essex	Dec. 5, 1899

HOSE COMPANY NO. 2, Cor. Main street and Wyoming avenue.

Name	Occupation	Age	Residence	Admitted
Capt. J. M. Hamlin	Produce	32	269 Main	July 11, 1893
Lieut. R. Gibbons.....	Carpenter ..	43	121 Trenton	March 3, 1874
J. R. Gibbons	Bldg. mover	37	124 Trenton	May 2, 1882
H. W. Simpson	Boot maker	32	Hose No. 2..	July 3, 1899
W. J. Riley Jr.	Clerk	27	24 Lynde	Feb. 2, 1897
C. F. Doherty	Barber	33	22 Lynde	Aug. 7, 1894
F. E. Newell.....	Coal and wood..	40	35 Hurd	Dec. 5, 1899
P. Hamlin.....	Produce	29	58 Pleasant....	April 1, 1900
W. L. Pullen	Drug clerk	28	66 Summer	April 1, 1900

HOSE COMPANY NO. 3, Franklin street, Melrose Highlands.

Name	Occupation	Age	Residence	Admitted
Capt. Frank H. Cheever. ..	Clerk	27	894 Main	Feb. 5, 1895
Lieut. Herbert E. Singer ...	Clerk	28	147 Franklin.....	June 2, 1896
George E. Burnham	Carpenter	35	1 Orient pk.	July 5, 1899
Leverett D. Newhall	Permanent man.	45	23 Ellsworth av.	Jan. 9, 1885
William R. Holly	Carpenter	33	24 Sargent.....	Jan. 3, 1899
George B. Munn	Clerk	26	48 South av.....	July 5, 1899
Edgar W. Mansfield	Painter	22	92 Ashland	April 3, 1900
Oscar F. Low	Lather	23	112 Ashland	Aug. 1, 1899
William F. Simpson.....	; Grocer	28	Renwick rd ..	April 3, 1900

HOSE COMPANY NO. 4, East Foster street.

Name	Occupation	Age	Residence	Admitted
Capt. Charles E McKinnon .	Clerk	36	159 Laurel.....	May 1, 1890
Lieut. Edward W. Russell..	Engi eer	28	4 Perham ct ...	April 1 1894
Charles Critchett..	Railroad	37	Whitman av ..	May 1, 1892
George D. Russell	Clerk	26	142 Laurel.....	April 1, 1894
George M. Bayne.....	Clerk	24	26 Oakland	May 1, 1898
Frank C. Newman.....	Decorator	34	293 Grove	May 1, 1898
Edgar J. Smith	Carpenter	21	151 Laurel.....	July 1, 1900
Vernon V. Vaughn.....	Carpenter.....	24	Argyle	July 1, 1900
Fred S. Boardman.....	Baker	24	346 E. Foster....	July 1, 1900
Frank W. Johnson	Plumber	26	23 Sewall	Jan. 1, 1900

HOOK AND LADDER COMPANY NO. 1, Central Station.

Name	Occupation	Age	Residence	Admitted
Capt. Joseph Edwards.....	Wheelwright ..	47	612 Main	May 4, 1877
Lieut. Harry R. Norton.....	Grocer.....	41	27 E. Emerson..	Mar. 1, 1895
Daniel E. Gibson.....	Clerk	37	13 Florence.....	Aug. 1, 1900
Robert H. Whidden	Permanent man.	33	26 Winthrop ...	Sep. 5, 1890
Curtis S. Gordon .....	.....	62	21 Winthrop ...	May 2, 1890
William H. Stewart.....	Carpenter	50	36 Albion	June 6, 1873
Joseph Tyzzer	Blacksmith	64	5 Central ter...	Aug. 6, 1880
William A. Lynde.....	Farmer	43	529 Lebanon....	Mar. 7, 1876
Frank H. Tyzzer.....	Painter	36	5 Central ter...	Oct. 7, 1887
Andrew McDonald	Coachman	39	62 E. Foster	Sep. 1, 1900
Edward H. Carley.....	Carpenter.....	26	147 Myrtle.....	Jan. 6, 1899
William J. Warren.....	Painter	34	187 Grove	July 1, 1900
Henry S. Robertson	Painter	33	102 Grove	Oct. 7, 1887
John J. Forsyth.....	Painter	26	25 Essex.....	Sep. 1, 1900
Frank I. Storey.....	Painter	35	40 Linwood av..	Jan. 1, 1900

STATEMENT OF FIRES AND ALARMS FOR THE YEAR ENDING
JANUARY 31, 1901.

January 1; 8.10 p. m.; box 23; building corner Forrest and Lebanon streets; owned and occupied by Levi Elms; value of building and contents \$1700; damage, \$1700; insurance, \$1200; insurance paid, \$1175.

January 11; 9.25 a. m.; still alarm; house No. 13 Foster street; owned by D. Mahoney.

February 22; 10.30 p. m.; box 38; barn rear of No. 20 Tappan street; owned and occupied by M. J. Coyne; value of building and contents, \$200.

March 9; 9.18 p. m.; box 41; barn rear of No. 76 Beech street; owned and occupied by Trueworthy Norris; value of building and contents, \$450; damage, \$250; insurance, \$200; insurance paid, \$145.

April 1; 7.00 p. m.; still alarm; grass, corner Sylvan street and Linwood avenue.

April 3; 3.58 p. m.; still alarm; Carter's block; 454 Main street.

April 3; 4.33 p. m.; box 43; Carter's block, 454 Main street; owned and occupied by Carter Bros.; value of building and contents, \$10,000; damage, \$1100; insurance, \$9000; insurance paid, \$1000.

April 6; 3.10; box 48; grass fire in Cedar park.

April 6; 7.08 p. m.; box 63; brush fire on Howard street.

April 7; 3.09 p. m.; box 39; brush fire on Washington street.

April 7; 4.38 p. m.; box 32; brush fire on Boston rock.

April 10; 12.05 a. m.; box 42; house on Swain's Pond avenue; owned and occupied by Mrs. Betham; value of building and contents, \$500; damage, \$500.

April 16; still alarm; brush fire rear city hall.

April 18; 1.40 a. m.; box 43; Westgate's block, Main street; owned by Frank Westgate; occupied by L. Frank Hinckley and others; value of building and contents, \$9000; damage, \$5452; insurance, \$7500; insurance paid, \$5452.

April 18; 6.45; still alarm; Westgate's block.

April 29; 9.15 a. m.; still alarm; Boardman avenue.

May 2; still alarm; city dump.

May 4; 1.13 p. m.; ten blows; call from Wakefield.

May 11; 1.39 a. m.; box 29; barn on Third street; owned and occupied by A. Lux, Jr.; value of building and contents, \$2700; damage, \$2700; insurance, \$2000; insurance paid, \$1725.

May 13; 2.42 a. m.; box 55; house No. 225 Tremont street; owned and occupied by Joseph Frye; value of building and contents, \$6200; damage, \$2958; insurance, \$5000; insurance paid, \$2958.

June 10; 3.03 p. m.; still alarm; Messenger's stable on Brunswick park; value of building, \$1000; insurance, \$800.

July 3; 3.03 a. m.; box 42; ice houses off Upham street; owned by Mr. McKay; occupied by Mark Bunker; value of building and contents, \$8000; damage, \$925; insurance, \$4800; insurance paid, \$750.

July 14; 2.55; still alarm; dump rear fire station.

July 15; 12.32 a. m.; box 61; house No. 220 Porter street; owned and occupied by Eugene H. Moore; value of building and contents, \$26,000; damage, \$5553; insurance, \$17,000; insurance paid, \$5553.

July 21; 8.10 a. m.; ten blows; call for assistance from Wakefield.

July 23; 2.22; box 59; brush fire on Summit avenue.

July 23; 3.22; box 59; brush fire on Summit avenue.

July 25; 2.30 p. m.; still alarm; brush fire Summit avenue.

July 31; 1.45; still alarm; house corner Melrose and Tremont streets; value of building and contents, \$5500; insurance, \$4000.

August 4; 3.40; box 63; brush fire on Howard street.

August 4; 8.00 p. m.; still alarm; brush fire on Howard street.

August 5; 4.40 p. m.; box 53; brush fire on Boardman avenue.

August 6; 11.39 a. m.; box 63; brush fire on Howard street.

August 6; 2.00 p. m.; box 52; brush fire on Richardson road.

August 6; 4.00 p. m.; still alarm; brush fire on Boardman avenue.

August 31; 11.58 a. m.; still alarm; house 244 Main street; owned and occupied by Henry Lynde; value of building and contents, \$2300; damage, \$22; insurance, \$1200.

September 4; 3.50 p. m.; still alarm; brush fire on Swain's Pond avenue.

September 5; 3.30 p. m.; still alarm; grass fire off Belmont street.

September 10; 2.55; still alarm; brush fire on Hayward avenue.

September 12; 11.15; still alarm brush fire on Wyoming avenue.

September 12; 12.45 p. m.; box 63; brush fire on Howard street.

September 12; 1.30 p. m.; box 53; brush fire on Hayward avenue.

September 12; 4.45 p. m.; box 53; brush fire on Hayward avenue.

September 14; 4.20 p. m.; box 25; brush fire on Sylvan street.

September 15; 4.45; still alarm; brush fire on Howard street.

September 16; 10.30; box 52; building off Albion street; owned by Mrs. Pendleton; occupied by Hiram Berry; value

of building and contents, \$1100; damage, \$500; insurance, \$500; insurance paid, \$250.

September 17; 4.30; still alarm; rekindling of previous fire.

September 21; 3.01; box 41; house on Lebanon street; owned by Eugene McCarthy; occupied by C. Mullen; value of building and contents, \$800; damage, \$800; insurance, \$500; insurance paid, \$425.

October 6; 1.15 a. m.; box 42; hen house on estate of P. Hallahan.

October 17; 3.10 a. m.; still alarm; hen house of John Hines.

October 23; 11.07; box 42; building on Grove street; owned by John Harvey.

October 31; 9.16 a. m.; box 43; building 655 Main street; owned by John H. Atwood; value of building \$10,500; damage, \$120; insurance, \$10,000; insurance paid, \$120.

November 16; 3.00 p. m.; still alarm; grass fire off Melrose street.

November 27; 6.55; box 58; building No. 35 Otis street; owned by T. B. J. L. Grady; value of building and contents, \$3000; insurance, \$2500.

December 3; 9.30 p. m.; box 54; building 117-119 Franklin street; owned by George Boardman; occupied by Munn Bros. and others; value of building and contents, \$6389; damage, \$2630; insurance, \$5300; insurance paid, \$1608.

December 8; 8.32; still alarm; building No. 14 Emerson place; owned by Mrs. M. E. Selee; occupied by Aaron Harris; value of building, \$3300.

December 13; 3.30 p. m.; still alarm; house on Fletcher street; owned and occupied by Horatio Libby; value of building and contents, \$9000; damage, \$67; insurance, \$6000.

December 13; 8.55 p. m.; still alarm; recall to the Horatio Libby house.

December 13; 8.35 p. m.; still alarm; brush fire on Pearl street.

December 14; 1.07 a. m.; box 62; house No. 15 Linden street; owned and occupied by George Breare; value of building and contents, \$3500; insurance, \$1600.

December 19; 5.48; box 43; building No. 642 Main street;

owned by Mrs. George E. Seaman; occupied by Mrs. Eva Keith Greene; value of building and contents, \$8000 damage, \$925; insurance, \$4800; insurance paid, \$50.

December 26; 6.44; still alarm; ice houses on Main street.

December 31; 6.40 p. m.; box 52; false alarm.

January 3; 8.45.; box 51; barn No. 35 Reading Hill avenue; owned and occupied by Mrs. Frank E. Morton; value of building and contents, \$1000; damage, \$300; insurance, \$1000; insurance paid, \$300; cause, lantern explosion.

January 21; 11.54 a. m.; box 41; building No. 175 Linwood avenue; owned by Eben S. Griffen; occupied by Mr. Brown and Mr. Easton; value of building and contents, \$1800; damage, \$5; insurance \$1200; insurance paid, \$5; cause, thawing water pipes.

January 23; 11.30 a. m.; still alarm; Harnden's market, Rogers' block, Franklin street; value of building and contents, \$4800; insurance, \$3600.

January 29; 1.02 a. m.; boxes 28 and 41; building No. 95 Park street; owned and occupied by Luther E. Chandler; value of building and contents, \$3400; damage \$3400; insurance, \$2800; insurance paid, \$2550; cause, overheated furnace.

January 31; box 54; building No. 98 Ashland street; owned and occupied by Chester A. Coombs; value of building and contents, \$3200; damage, \$26; insurance, \$3200; insurance paid, \$26; cause, caught from lamp.

The value of property endangered, \$131,493; total damage, \$34,277; insurance, \$92,200; insurance paid, \$26,672; loss, \$7,605.

A. WILBUR LYNDE, Chief
JOSEPH M. HOLBROOK.
SAMUEL LEAR, Clerk.

Melrose Hospital Report.

MELROSE, MASS., March 7, 1901.

The Board of Aldermen:

GENTLEMEN: Please find herewith an itemized account of the number of persons and the length of time each was treated free of charge from October 18th, 1899, to October 18th, 1900, which is the hospital year. Enclosed you will find a list of the hospital rates, by which you will see that the ward beds are ten dollars a week. The average cost for these patients is fourteen dollars and fifty cents per week, being a little more than as much again as the city of Melrose allows for their care.

Yours truly,

L. I. DES BRISAY,
Superintendent.

FREE NURSING IN MELROSE HOSPITAL, FROM OCTOBER 18, 1899, TO OCTOBER 18, 1900.

No.	Admitted.	Discharged.	Days
1 . . .	October 18th,	December 10th,	53
2 . . .	" 18th,	" 15th,	58
3 . . .	" 18th,	October 26th,	9
4 . . .	" 20th,	" 27th,	8
5 . . .	" 18th,	" 27th,	10
6 . . .	" 21st,	" 22d,	2
7 . . .	" 24th,	November 12th,	19
8 . . .	" 31st,	October 31st,	1
9 . . .	" 31st,	November 22d,	22
10 . . .	" 31st,	" 15th,	16
11 . . .	November 1st,	December 21st,	51
12 . . .	" 2d,	" 18th,	46
13 . . .	" 9th,	" 9th,	30
14 . . .	" 10th,	November 25th,	16
15 . . .	" 18th,	December 10th,	23

No.	Admitted.		Discharged.	Days.
16	.	.	November 18th, December 14th,	28
17	.	.	" 21st, November 29th,	10
18	.	.	" 21st, December 30th,	40
19	.	.	December 5th, " 5th,	1
20	.	.	" 10th, " 10th,	1
21	.	.	" 15th, " 17th,	3
22	.	.	" 16th, " 22d,	7
23	.	.	" 19th, January 6th,	17
24	.	.	" 23d, December 23d,	1
25	.	.	" 23d, " 23d,	1
26	.	.	January 3d, January 19th,	17
27	.	.	" 14th, " 15th,	2
28	.	.	" 8th, February 23d,	44
29	.	.	" 14th, " 1st,	18
30	.	.	" 19th, January 19th,	1
31	.	.	" 19th, " 19th,	1
32	.	.	" 20th, " 22d,	3
33	.	.	February 5th, March 9th,	32
34	.	.	" 9th, " 5th,	24
35	.	.	" 13th, February 27th,	15
36	.	.	" 27th, March 25th,	27
37	.	.	March 17th, May 13th,	56
38	.	.	" 24th, March 29th,	6
39	.	.	" 26th, " 26th,	1
40	.	.	April 3d, April 17th,	15
41	.	.	" 6th, " 17th,	12
42	.	.	" 11th, " 20th,	10
43	.	.	" 18th, " 21st,	4
44	.	.	" 4th, " 7th,	4
45	.	.	" 21st, May 19th,	29
46	.	.	" 30th, April 30th,	1
47	.	.	May 11th, May 31st,	21
48	.	.	" 14th, June 2d,	20
49	.	.	" 16th, " 4th,	20
50	.	.	" 25th, May 30th,	6
51	.	.	" 28th, June 20th,	24
52	.	.	June 1st, " 1st,	1
53	.	.	" 6th, " 6th,	1
54	.	.	" 6th, " 29th,	24

No.	Admitted.	Discharged.	Days.
55 . . .	June 8th,	June 14th,	7
56 . . .	" 8th,	" 15th,	8
57 . . .	" 11th,	July 7th,	27
58 . . .	" 14th,	June 22d,	9
59 . . .	" 12th,	" 23d,	12
60 . . .	" 18th,	" 28th,	11
61 . . .	" 22d,	July 6th,	15
62 . . .	July 6th,	" 12th,	7
63 . . .	" 9th,	" 9th,	1
64 . . .	" 9th,	" 16th,	8
65 . . .	" 13th,	August 12th,	30
66 . . .	" 13th,	July 19th,	7
67 . . .	" 13th,	August 5th,	23
68 . . .	" 21st,	" 12th,	23
69 . . .	" 22d,	July 31st,	9
70 . . .	" 25th,	August 1st,	7
71 . . .	" 26th,	" 11th,	16
72 . . .	" 30th,	September 27th,	59
73 . . .	" 31st,	August 1st,	2
74 . . .	August 1st,	" 24th,	24
75 . . .	" 7th,	" 7th,	1
76 . . .	" 6th,	" 9th,	4
77 . . .	" 15th,	September 24th,	40
78 . . .	September 4th,	" 5th,	2
79 . . .	" 3d,	" 10th,	8
80 . . .	" 10th,	" 12th,	3
81 . . .	" 10th,	" 15th,	6
82 . . .	" 29th,	October 1st,	3
83 . . .	" 29th,	" 6th,	8
84 . . .	" 30th,	September 30th,	1
85 . . .	October 1st,	November 20th,	50
86 . . .	" 3d,	October 6th,	4
87 . . .	" 16th,	" 16th,	1
88 . . .	" 18th,	" 20th,	3

 1,250

Free nursing done outside of hospital, . . .

75

 1,325

First Annual Report

OF THE

Engineer and Superintendent

OF THE

PUBLIC WORKS DEPARTMENT,

CITY OF MELROSE,

MASS.,

FROM JANUARY 1, 1900, TO JANUARY 31, 1901.

W. DABNEY HUNTER,
Engineer and Superintendent Public Works Dept.

MELROSE :
A. W. DUNTON & CO., PRINTERS, REPORTER OFFICE.
1901.

MELROSE, April 15, 1901.

In committee on highways, sewers, water and public grounds:

It was voted that this report be accepted and placed on file.

VICTOR C. KIRMES,
Clerk of Committee.

In Board of Aldermen :

April 15, 1901.

Report of committee on highways accepted and report placed on file.

ORGANIZATION.

1900.

HON. LEVI S. GOULD,
Mayor.

W. DABNEY HUNTER,
Engineer and Superintendent.

EMMA L. LEIGHTON,
Stenographer.

WILLIAM H. MARTIN,
Book-keeper.

WILLIAM F. HUNT,
Assistant in charge of Engineering Division.

JAMES MARSHALL,
Assistant in charge of Highway Division.

JAMES W. RILEY,
Assistant in charge of Water Division.

JAMES MCTIERNEY,
Assistant Clerk and Inspector in Water Division.

BARTLEY MALONEY,
Assistant in charge of Sewer Division.

To His Honor the Mayor, John Larrabee:

DEAR SIR:—I have the honor to submit to you the first annual report of the Public Works Department of the City of Melrose, covering the period of thirteen months, beginning January 1, 1900, and ending January 31, 1901.*

This department is created by clause 7, of Section 36 of the City Charter (Chapter 162 of the Acts of 1899), which reads as follows:—

“The public works department, to be under the charge of an official who shall be known as the engineer and superintendent of public works. He shall have charge of the design, construction, alteration, repair, maintenance and management of the water works, the public sewers and drains, the public ways, sidewalks and bridges, public parks, squares and playgrounds, and the lighting and watering thereof, and also the public buildings, excepting however such duties with reference to the school buildings as are now conferred by law and this act upon the school committee. He shall make and have the custody of all plans, surveys, measurements and levels appertaining to the public ways, drains, sewers, water works and lands, and shall perform such other duties as the board of aldermen may prescribe. Subject to the approval of the mayor he shall appoint an assistant superintendent in the water department, an assistant superintendent in the sewer department, and such other assistants as the condition of the work may require.”

In making this report I shall do so under separate heads and at the close of each will give a summary of the receipts and expenditures, but will not give them in detail as the space required would be too great.

* NOTE:—Under the Town Government the fiscal year ended Dec. 31, whereas under the city charter it ends Jan. 31, making the fiscal year of the city thirteen instead of twelve months.

PUBLIC WORKS OFFICE.

The work of this office has been to answer all correspondence both of the mayor and that of the public works department, also the keeping of the mayor's records, as he did me the honor of appointing me his clerk; collect all sundry charges in the water, sewer, highway and other departments; write contracts, proposals and agreements; report on orders and petitions to the board of aldermen and the various committees of the board, and grant permits for sundry purposes.

A synopsis of this work is as follows:

Permits to occupy and open public streets,	178
“ “ move buildings through public streets, . . .	6
“ “ erect signs over public streets,	1
“ “ “ flag over public streets,	2
Orders of the board of aldermen attended to or reported on,	153
Contracts written and made: sewer pipe and spe- cials, cast iron pipe and specials, street watering, concrete and regrading Main street,	5
Agreements or releases for private sewers,	1
“ “ “ “ water services,	1
Special agreements,	7
Letters received and answered,	3,645
Number of collections made,	491
“ “ refunds made,	170
Street watering accounts abated,	43
Sewer accounts divided,	104

The expense of this office for the 13 months is below:

Amount appropriated,	\$1,105 00
Allowance for January,	40 03
Receipts paid treasurer,	3 78
	————— \$1,148 81

EXPENDED.

For stenographer—13 months, . . .	\$510 00	
“ clerical assistance, . . .	27 00	
“ typewriting.	10 25	
“ books, stationery, printing, stamps, etc.,	254 80	
“ telephone service,	54 68	
“ care of horse,	255 35	
“ repairs to office,	15 78	
“ expressage,	8 35	
	<hr/>	\$1,136 21
Unexpended balance,		<hr/> \$12 60

WATER DIVISION.

After carefully studying into the needs and requirements of this division of the public works department I was convinced that some improvement could be made.

The last rules and rates published by the water commissioners was in 1886; since then the rates have been changed, many of their rules have become obsolete, while others by custom have been added.

My first thought was could I recommend that the rates be reduced. Assuming that all charges and expenses pertaining to the care and maintenance of the works together with state assessment, interest and sinking-fund requirements should be paid from the receipts, then the questions were, first—what would these changes be; second—could they be reduced, and if so, how.

In answer to the first question I was confronted with the following:—Bonded water debt, \$237,000, to meet the pay-

ERRATA.—The amount (\$65.80) which appears in several places as being collected and paid treasurer for summons is incorrect, and should not have appeared as a separate item but should have been added to the amount collected for water.

ment of which at maturity annual appropriation necessary for sinking-fund requirements, about,	\$10,000 00
Annual interest,	9,480 00
Ultimate metropolitan water tax, about,	17,000 00
General maintenance and care of local system, estimated on the past expenditures of the water commissioners,	12,000 00
Total,	\$48,480 00

The largest receipts of this division were those reported by the water commissioners in 1899, being \$44,560.97, showing that unless some gain was made, which is probable, a deficiency would exist of \$3,919.03.*

Second:—Could the expenses be reduced, and if so, how? The amount necessary for sinking-fund requirements and the interest on our bonds seems to be fixed and the amount payable to the commonwealth is likewise fixed, which leaves the item—general maintenance and care of local system—\$12,000, the only one over which there is any possible control. This amount is too large and is principally due to imperfections in our works, namely: first, weak cement pipes; second, old iron service pipes; third, both main and service pipes are laid too near the surface of the street, causing them to freeze during the winter months. How could these defects be remedied? First, weak cement pipes. The abandonment of the Melrose high service reservoir and taking water from the Metropolitan northern high service reservoir increased the pressure in our pipes about ten pounds and the number of breaks was noticeably increased. To prevent this about the first work done was to purchase and put in place a

NOTE.—The amount estimated as Metropolitan water tax will not be reached until about 1905. We at present (1900) pay \$6,740 which amount will be increased about \$2,000 per year until a sum is raised sufficient to meet all the requirements of interest, sinking-fund and maintenance of the Metropolitan system. The deficiency which now exists is paid from the bond issue. The Metropolitan water board at the present time are strongly advocating the advisability of adopting the "pay as you go" policy, which, if done would jump our assessment at the present time up to between thirteen and fourteen thousand dollars.

mechanical device called a regulator, by means of which the pressure could be reduced to the same as when we took water from our own reservoir, or even less if desired. It has been maintained as near as possible at the old pressure and this has materially diminished the number of breaks, still they are altogether too frequent, being about 140 for the year and the cost for repairing \$1,117.69, to say nothing of the damage done to highways or the inconvenience occasioned to water takers, nor the increased risk from fire. This regulator has certainly more than paid for itself the past season.

Second:—Old iron service pipes. Many of the first service pipes laid are plain wrought iron, neither galvanized, cement or lead lined, and consequently are continually stopping up from rust and have to be dug up and cleaned. When new mains are put in, these should likewise be renewed with either all lead, lead lined, or tin lined pipes.

Third:—The grades in many of our streets have been changed, some raised and some lowered; where lowered, the water pipes in some instances freeze solid in cold weather and have to be thawed out; this is a needless expense and can be prevented by lowering. To make these improvements requires an expenditure of no small sum and it is the opinion of your engineer and superintendent that now, while the payments to the commonwealth are small, we should use all the receipts available or not needed for interest and sinking fund requirements for this purpose, and by so doing reduce each year the general maintenance.

Thus it will be seen that the rates cannot at present be materially reduced.

The next question is, can the receipts be increased? By more care and watchfulness and a rigid enforcement of the rules and regulations relative to collections they can and have been.

There appears to have been a number of customs in practice in the past which resulted in the loss of collections, such as abatement of the charge for hose to all persons claiming not to use the same; the abatement for vacancies simply on the statement of the consumer or party interested. There

is not the slightest doubt that a great many people used the hose without paying for it. Requests have been made for abatements on account of vacancies as far back as 1898 without the slightest evidence of such vacancy, except the statement of the party interested. I do not mean that all of these persons misrepresented the facts, but it is at least possible that some did. Abatements should not be made or money refunded for vacancies unless proper notice is given and the water shut off.

Another source of leakage was from turning on water for portions of the year without collecting the rates in advance. Many people occupy a house only a portion of the year and if the rates are not paid in advance we lose them.

To obviate these difficulties new rules were prepared, together with a schedule of new rates, using the old rules and rates as a basis. They were presented to his honor Mayor Gould, who approved and forwarded them to the board of aldermen, recommending that they be passed. They have been reported upon favorably by the committee on highways, water, sewers and public grounds, and are now on the aldermen's table.

Until the year 1895 the water department always had some allowance by the town for the water used for municipal purposes; since then it has been discontinued. It would seem unfair to assess upon the water takers the cost of the water used in our public buildings, drinking-fountains, watering streets and for fire purposes; and it is a more apparent injustice to assess upon them the cost of caring for hydrants and for construction, which the past year has amounted to \$124.20 and \$3,347.60 respectively. This latter charge, construction, should be provided for by a bond issue.

METROPOLITAN DISTRICT.

Chapter 488 of the Acts of 1895 established a board of metropolitan water commissioners, defined their duties, rights and powers, and also fixed the limits of the district, which district is subject to such change as may be made by said board.

At present this district consists of the cities of Boston, Somerville, Chelsea, Everett, Malden, Medford, Quincy and Melrose, and the towns of Belmont, Watertown, Arlington, Nahant, Revere and Winthrop, which pays the expenses of the district (except Boston which pays entirely on the proportional valuation) partly on the proportional valuation and partly on the proportional population. The total valuation of the district is \$1,351,533,161.00, and the total population is 809,555.

The valuation of Melrose is \$12,778,365.00 or .9454 per cent. of the whole, while the population is 12,962 or 1.60 per cent. of the whole. We will pay the coming year about \$8,878.00, divided as follows:—on valuation \$2,837.00 and on population \$5,153.00.

The metropolitan water board notified the officials of the various cities and towns comprising the district of a conference to consider certain matters pertaining to the water supply and the annual payments, which can best be explained by giving a copy of a circular issued by them after holding the first meeting:

COMMONWEALTH OF MASSACHUSETTS.

METROPOLITAN WATER BOARD.

1 Ashburton Place.

DEAR SIR:—At a conference held on Wednesday, Jan. 30, 1901, between the metropolitan water board and the various water boards or commissioners in the metropolitan water district, the following matters were considered:

1. Prevention of the waste or excessive use of water.
2. Uniform regulations for the use of hand hose and lawn sprinklers.

At the close of the meeting it was decided to hold an adjourned meeting at the office of the board on Wednesday, February 13, at 3 o'clock p. m., and several of those present afterwards suggested that an abstract of the statements and suggestions made be printed and distributed.

1. Prevention of waste or excessive use of water.

Attention was called to the rapid increase in the consumption of water per inhabitant, amounting to 54 per cent. in ten years, and the need for taking such measures as would prevent a like increase in the future.

The great annual increase in the consumption of water is not only increasing the current expenses of operation, but is hastening the time when large expenses must be incurred for the enlargement and extension of works and the acquisition of new sources of supply.

If the population in the metropolitan water district increases in the decade ending 1910 by the same number that it increased in the preceding decade, and the number of gallons consumed per inhabitant also increases in this decade as in the preceding decade, the consumption of water in the district in 1910, without annexations, will be 164,000,000 gallons. The state board of health estimated that the capacity of the whole metropolitan water system, after the addition of the Nashua river, would be 173,000,000 gallons per day, but this included an average of 6,000,000 gallons per day of freshet water from the Sudbury river water-shed, which probably would not be acceptable to the water consumers of the district, leaving the net capacity 167,000,000 gallons per day. Annexations to the district will probably cause an increased demand for water. If by the use of meters the consumption can be reduced to 100 gallons per inhabitant, which is a liberal quantity, the supply would last, without additions, an additional eight or ten years.

Under the metropolitan water act the amounts of assessments laid upon the various cities and towns in the district are not in proportion to the consumption of water in the cities and towns respectively.

There are disadvantages and difficulties in a plan for measuring the quantity of water used by the different cities and towns and charging in proportion to such quantity. In order that such a plan should be wholly effective, not only each city and town, but also each individual water taker should have a direct financial interest to prevent the waste and excessive use of water.

It was suggested that the most effective measure for encouraging economy in the use of water is to provide that water be furnished to the individual takers through meters.

Two methods have been proposed for increasing the use of meters in the district, both of which would require legislation.

First. A compulsory method, requiring the use of meters, the number used to be increased each year at a rate proportioned to the number of services.

Details under this method were not considered, and the method was not generally discussed.

Second. An optional method, offering an inducement to each city or town to introduce meters.

Such an optional method, suggested by the chief engineer, was outlined by him as follows:

Ascertain the number of water meters in use in the various cities and towns in the district at the beginning of the year. Credit or pay the city of Boston for each meter so in use, say \$3.00—that is, for the number in use on Jan. 1, 1901, (4,455), the sum of \$13,365. Credit or pay the other cities and towns in the district, say \$2.50 for each meter—that is, for the total number in use outside of Boston (5,930), the sum of \$14,825. The total amount thus required in 1901 to meet the credits or payments on account of meters in use in the district would be \$28,190. The money so required would have to be raised from the district. It was suggested that the necessary sum be assessed upon the various cities and towns in the district in the same manner as the sum necessary to meet the annual requirements for maintenance, interest, and the sinking fund. By this method the total assessment for the district, under the present law, would, for the year 1901, be increased by \$28,190—that is, from \$900,000 to \$928,190; or, if the pay-as-you-go policy should be adopted, from, say, \$1,534,800 to \$1,562,990. The additional sum of \$28,190 thus assessed would be credited or paid back to the cities and towns in proportions different from those in which it was assessed, and according to the number of meters in use. The city of Boston would receive \$3.00 for each of its meters in use on Jan. 1, 1901; every

other city or town would receive \$2.50 for each meter so in use.

This suggested method was further explained by reference to a diagram, of which the following is a copy, except that the statistics for Jan. 1, 1901, have been substituted for those of the previous year:

City or town.	Number of services.	Number of meters.	Percentage of services metered.	Credits allowed for meters in use.	Additional assessments to meet credits for meters.	Credits in excess of assessments.	Assessments in excess of credits.
Belmont,	568	568	100.0	\$1,420	\$ 86	\$1,334	.....
Watertown, ...	1,577	1,425	90.4	3,563	197	3,366	.....
Malden,	6,548	3,176	48.5	7,940	614	7,326	.....
Boston,	87,490	4,455	5.1	13,365	23,508	.....	\$10,143
Arlington,	1,570	71	4.5	177	169	8	.....
Nahant,	436	18	4.1	45	52	.....	7
Quincy,	4,050	125	3.1	313	443	.....	130
Medford,	3,899	101	2.6	253	367	.....	114
Melrose,	3,131	77	2.5	192	252	.....	60
Somerville, . .	10,291	202	2.0	505	1,143	.....	638
Chelsea,	6,145	118	1.9	295	595	.....	300
Everett,	4,405	34	0.8	85	437	.....	352
Revere,	1,932	13	0.7	32	202	.....	170
Winthrop,	1,483	2	0.1	5	125	.....	120
Swampscott, ...	971	0	0.0	.....	.....	.....	.....
Totals, average,	134,496	10,385	7.7	\$28,190	\$28,190	.....	.....

The sums of \$3.00 and \$2.50 respectively credited for meters in use in Boston and in the outside cities and towns, are, of course, details subject to modification. The meters required in Boston are, upon the average, larger and consequently more expensive in cost and maintenance than those required outside. Perhaps on this account and on account of the greater assessment paid by Boston, the difference in the prices should be made greater.

The first two columns of figures, relating to the number of services and the number of meters in use in each city and town, are the statistics as furnished by the cities and towns.

The third column shows the percentages of services metered. The fourth column shows the amount of credit or payment which would be allowed each city and town on account of its meters, and the fifth column shows how much of the additional assessment for meters each city and town would be required to pay. The final columns show how the meter account would stand for each city and town.

In a town which has its proportion of meters, the assessment on account of the meters and the credit would nearly balance; a town having more than its proportion of meters would have a credit greater than its assessment, and one having less than its proportion of meters would have an assessment greater than its credit.

If the sum allowed for meters is made a little greater than the annual cost, taking into account interest, depreciation, repairs and attendance, this method would seem to offer an inducement for the introduction of meters, but it would not be compulsory.

Upon the question regarding the reduction in the consumption of water by the use of meters, the experience of the city of Milwaukee is particularly instructive, and is to be seen by the following statement:

Year.	Number of Services.	Number of Meters.	Percentage of daily consumption	
			Services Metered.	Per Inhabitant.
1887.....	13,243	1,728	13	113 gallons
1899.....	38,191	25,639	67	85 "

The daily consumption of water per inhabitant in the Metropolitan water district (113 gallons) is now the same as in Milwaukee in 1887.

2. UNIFORM REGULATIONS FOR THE USE OF HAND HOSE AND LAWN SPRINKLERS.

Attention was called to the great diversity in the regulations made by the cities and towns in the district regarding the use of hand hose and lawn sprinklers, and to the fact that their excessive use greatly increases the consumption of water.

In approving the minimum rates to be paid for the use of water, the board is called upon to treat alike, or impartially, the different municipalities. At present the use of hand hose is in most places restricted to two hours per day, between the hours of 5 and 8 a. m. and 5 and 8 p. m. One town permits their use for three hours, and in two cities and two towns the use of hose is not permitted except on metered premises. In the majority of places the diameter of the hose nozzle is restricted to 3-16 of an inch, but in two cities and one town nozzles $\frac{1}{4}$ of an inch in diameter, and in two towns $\frac{3}{8}$ of an inch in diameter are permitted.

Experiments recently made show that under ordinary conditions of use the 3-16 inch nozzle will deliver about 48 cubic feet or 320 gallons per hour, and a $\frac{1}{4}$ inch nozzle 78 cubic feet, or 585 gallons per hour.

The use of lawn sprinklers, except on metered premises, is now prohibited in all but three or four municipalities in the district.

In three municipalities their use is allowed under the permits for the use of hand hose.

The board thinks it desirable that water for lawn sprinklers should in all cases be metered, but that in cities and towns where domestic services are not generally metered the use of lawn sprinklers may for the time be permitted, under suitable regulations and on the payment of annual rate, which shall equal the value at meter rates of the water likely to be used. The board has for one city approved for the present year a rate of \$10 per annum for lawn sprinklers, if used in connection with hand hose and restricted to two hours daily between the hours of 6 and 8 p.m. The average quantity of water used by lawn sprinklers is estimated to be about 60 cubic feet, or 450 gallons per hour.

The board recommends that the following regulations regarding the use of hand hose and lawn sprinklers be adopted in the various cities and towns:

Water shall, except on metered premises, be used through hand hose and lawn sprinklers, only under the following regulations:

Water may be used through hand hose two hours per day, the hours of use to be between 5 and 8 a. m. and 5 and 8 p. m. The hose must be held in the hand, and must be used with a nozzle not over 3-16 of an inch in diameter.

Lawn sprinklers, discharging under the same pressure, not more than $1\frac{1}{3}$ times the discharge of a nozzle 3-16 of an inch in diameter, may be used two hours per day, between the hours of 5 and 8 p. m.

The board has approved during the current year, under similar restrictions, the following minimum rates:

Minimum rate for hand hose,	\$3
Minimum rate for lawn sprinklers,	10

The minimum rate for hand hose generally adopted in the district is \$5, and the above rate of \$3 is regarded as low, and an increase in the future may be regarded necessary.

The board earnestly urges that the regulations which are adopted shall be strictly and impartially enforced by the various cities and towns.

We should esteem it a favor if the various boards or commissioners would communicate to us, at or before the adjourned meeting, their opinions upon the questions suggested at the meeting of December 30 as above outlined, and especially upon the following:

1. Is it desirable to adopt a compulsory method for the use of meters?
2. Is an optional method for the use of meters desirable, and if so, what is your opinion of the method suggested?
3. Do you regard favorably the adoption of the regulations proposed for the use of hand hose and lawn sprinklers? If not, what changes would you suggest?

The board will welcome any suggestions upon the matters which have been discussed.

HENRY H. SPRAGUE, Chairman,
WILMOT R. EVANS,
HENRY P. WALCOTT,
Metropolitan Water Board.

Boston, Feb. 5, 1901.

Meter rates require quarterly payments, necessitating four bills annually for each taker, while the fixture rates only require one. Water furnished by meter is sold on credit, while for that furnished by fixture rates, payment in advance is required; meters also require a great deal of attention, they should be read frequently and tested occasionally, additional clerks, inspectors and mechanics would have to be employed, all of which would tend to materially increase the expense of the department. Moreover there is always the contention that the meter does not correctly register; that the bill is in excess of what it should be; nothing can or will convince the parties that the meter cannot register except water passes through it; and that if the meter in any way gets out of order it is for the advantage of the consumer. The question is never asked why a meter bill is so small, or smaller than it was for previous quarters, but the slightest increase is questioned; and the consumer never seems to realize that the less charge may have been in error, and should have been larger, but always assumes it to be correct and the large charge to be in excess of what it should be.

At the present time there are 77 meters in use, from which we derive an annual income of \$3867.64, provided all collections were made; but on reference to the statement collected and uncollected given elsewhere in this report, it will be seen that the uncollected meter rates amount to about 30 per cent. of the charges, while the uncollected fixture rates amount to only 1.6 per cent.

WATER RATES AND CHARGES.

A statement of the charges and collections is as follows:

WATER DEPARTMENT, DR.

To water fixture rates,	.	.	.	\$46,409	34
“ “ meter “	.	.	.	3,867	64
“ sundry charges,	.	.	.	1,997	17
			— — —	\$52,274	15

CR.

By collected and paid treasurer, fix- ture rates,	\$41,590 66
By collected and paid treasurer, meter rates,	2,732 68
By collected and paid treasurer, sun- dry rates,	1,839 20
By abatements,	3,738 97
“ refund sundry persons, . .	354 11
“ fixture rates uncollected, . .	671 66
“ meter “ “	1,134 96
“ sundries,	157 97
“ cash on hand Feb. 1st, 1901, .	53 94
	<hr/>
	\$52,274 15

From the above it will be seen that the total charges are \$52,274.15, while the total collections only \$46,570.59, which together with the abatements, \$3,738.97, makes \$50,509.56, showing charges uncollected to be \$1,764.59; of this amount \$1,134.96 is for metered water, \$671.66 is for water by fixture rates and \$157.97 for sundries. All of these amounts represent charges as far back as 1896. Most of the items of sundry charges are disputed by the persons to whom the charge is made, and as they were prior to my having any connection with the water department, I have little knowledge of them.

The meter rates uncollected are nearly all of them good and are principally for bills rendered Jan. 1, 1901; while in most cases the parties owing the fixture rates have moved out of town and they are uncollectable. To prevent this occurrence it has been deemed wise the coming year to more strictly enforce the rule requiring payments in advance. Last year there was a misunderstanding as to who was the proper officer to issue summons requiring this payment of water bills. It was not until August that I learned from the solicitor that the duty devolved upon me, when I immediately took measures to make the collections and sent out 500 summons requiring the rates to be paid within three days in default of which the water was shut off. This

was done irrespective of persons. Of the amount uncollected, fixture rates, \$143.09 is on premises now shut off for non-payment, the parties preferring to vacate rather than to pay the water rates.

Collections were made by the public works department until the middle of February, 1900, when the board of aldermen, by ordinance, placed them in the hands of the city collector, after which time the collection of water rates was made by him, but at his request and after a conference with the board of aldermen, the collection of the sundry charges was continued by this department; so it will be seen that the collections have practically been made by three different persons, viz: Stephen A. Lovejoy, who continued to act as water registrar until Feb. 15, 1900, James W. Murray, and the engineer and superintendent of public works. The following is a detail of the collections made by each:

STEPHEN A. LOVEJOY, Water Registrar.

Water rates,	.	.	.	\$8,683	19	
Sundries, shutting off water,	.	.	.	\$4	00	
cleaning services,	.	.	.	11	37	
stock,	.	.	.	12	34	
new services,	.	.	.	19	00	
repair services,	.	.	.	7	27	
refund from Malden						
(overcharge),	.	.	.	538	93	592 91 \$9,276 10

JAMES W. MURRAY, City Collector.

Water rates,	.	.	.	\$35,621	09	
Summons,	.	.	.		65	80
Sundries, shutting off water,	.	.	.	\$7	63	
cleaning services,	.	.	.	4	42	
repairing services,	.	.	.	9	19	
sealing faucets,	.	.	.	1	00	
new services,	.	.	.	14	40	
						36 64
Amount carried forward,	.	.	.	\$35,723	53	

Amount brought forward, . . .	\$35,723 53	
Collected for water and credited to sun- dries,	\$6 33	
Collected for sundries and credited to water,	2 13	
	<hr/>	4 20
		<hr/> *\$35,727 73

W. DABNEY HUNTER, Engineer and Superintendent
Public Works.

New services,	\$167 03	
Cleaning services,	153 41	
Repairing services,	214 24	
Sale of stock and junk,	69 48	
Sealing faucets,	8 62	
Shutting off water,	45 00	
Shutting off for non-payment,	90 00	
Collected for water and turned in as sundries (S. K. Ames for lime),	3 00	
	<hr/>	\$750 78
Collected from highway division, (stock and labor),	\$61 12	
Collected from street watering divi- sion, (stock and labor),	339 49	
Collected from sewer division (stock and labor),	32 68	
Collected from park division (stock and labor),	3 68	
Collected from city hall division (stock and labor),	2 45	
	<hr/>	\$1,190 20
Total collected and paid treasurer,		* \$46,194 03

* NOTE:—This does not include \$354.11 collected and refunded
sundry persons, nor \$53.94, cash on hand Feb. 1, 1901.

The net collections are divided as follows:

Water,	\$44,257	54
Summons,	65	80
Refunded by Malden,	538	93
Commonwealth of Mass., water rates,	22	45
New service pipes,	200	43
Cleaning service pipes for sundry persons,	169	20
Repairing,	230	70
Sealing faucets,	9	62
Shutting off water,	56	03
Shutting " " for non-payment,	90	00
Sale of stock,	81	82
Collected from other divisions of the public works department for stock and labor,	439	42
Total,		\$46,162 ³ / ₁₀ 54

STATEMENT FOR SINKING FUND.

WATER DEPARTMENT, DR.

To water rates, summons and lime, S. A. Lovejoy	\$8,683	19
To refund from City of Malden,	538	93
To sundry collections,	53	98
	<u> </u>	\$9,276 10
To water rates, summons and lime, J. W. Murray,	\$35,686	89
To sundries,	40	84
	<u> </u>	\$35,727 73
To allowances Commonwealth of Mass., for water receipts,	22	45
To sundry collections, W. D. Hunter,	\$750	78
Carried forward, \$750 78	\$35,750 18	\$9,276 10

Brought forward, \$750 78 \$35,750 18 \$9,276 10

To sundry collec-

tions from

other dep'ts., 439 42 1,190 20 36,940 38

Total collections, \$46,216 48

CR.

By Metropolitan ass'm't
for maintenance and
sinking fund, . . . \$6,740 49

Paid commonwealth for
over allowance in 1899
for Metropolitan water
rates, 11 77

Interest on water bonds, . 9,580 00

Construction, \$3,812.33,
maint., \$19,059.83, Jan.
1, 1900, to Feb. 1, 1901, 22,872 16

Transferred to city treasury 1,000 00

Cash in hands of city col-
lector, 53 94 \$40,258 36

Surplus, 5,958 12
\$46,216 48

The total cost of construction to date follows:

Cost as per report of water commis-
sioners, 1899, \$418,560 96

Regulator put in, 1900, \$1,047 48

Extensions, " 2,300 12

Services, " 464 73 3,812 33

Total, \$422,373 29

SUMMARY OF FIXTURES AND STATEMENT OF WATER SUPPLIED
JANUARY 1, 1901.

	Charged		Not Charged	Totals
	Rated	Metered	Public Buildings	
Families	2988	.....	.....	2988
Boarding houses	1	6	.....	7
Stores and shops	135	70	.....	205
Faucets	8083	391	138	8612
Water closets	3014	173	138	3325
Bath tubs	1937	57	3	1997
Full houses	87	.....	.....	87
Use of W. C.	83	3	.....	86
Use of bath tubs	29	.....	.....	29
Urinals	3	12	23	38
Fountains	4	.....	7	11
Sill cocks	903	20	14	937
Horses	338	168	8	514
Cows	40	.....	2	42
Hose	1100	.....	14	1114
Boilers .....	.....	6	20	26
Motors .....	.....	7	.....	7

Number of water takers,	3,200
“ “ vacancies,	450
“ “ taps to mains,	3,131
“ “ “ “ in use,	2,842
“ “ fire hydrants,	259
“ “ stand pipes (for street sprinkling),	24
“ “ “ “ (for cemetery),	11
“ “ gates on mains,	374
“ “ meters,	77

MAINTENANCE.

All services have been kept clean, leaks repaired, gate-boxes renewed and adjusted; all leaks in main pipes have had prompt attention, all hydrants been oiled, painted and

kept free from snow and ice; 140 breaks in main pipes, 17 in street services and 70 in lawn service pipes have been repaired; 59 services in street and 80 service pipes in the lawn have been cleaned; 12 stand-pipes for street watering erected; 163 service boxes repaired; 33 meters set or reset and 4 hydrants taken out and reset. Each house has been examined, the number and kind of fixtures noted, the name of the owner ascertained and a complete "register" gotten out which will last for three years; all bills and summons made out and delivered.

Every item of expense not directly chargeable to construction has been charged to maintenance.

Although the collector collects all water rates, all the incidental work is still done in this office and the fact that he receives the money, receipts the bill and keeps the cash account by no means relieves the department of the work formerly done by the water registrar.

The cost charged to general maintenance, the cost of renewals together with the work done and the stock account follows:

GENERAL MAINTENANCE.

James W. Riley, salary 13 months,	\$1,300 00
S. A. Lovejoy, " 2½ "	208 83
Jas. McTierney, " 13 "	850 00
W. H. Martin, " 39 weeks,	682 50
G. B. Leighton, making out water bills,	6 00
Mrs. Stevens, " " " "	12 00
S. Barker, " " notices,	4 50
Books, printing, paper and stamps,	158 65
Changing office to basement, . .	164 65
Telephone charges,	51 07
Advertising,	30 95
Awards for damage by water and injuries,	96 85
Sundry bills, oil, expressage, etc., .	130 82
Tools and repairs to same, . . .	112 77
Stable, board two horses 13 months, .	477 00

Amount carried forward, . . .	<u>\$4,286 59</u>
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Amount brought forward, . . .		\$4,286 59
Shoeing,	50 93	
Repairs, harnesses and wagons, . . .	67 90	
Rent of shop, Sanford street, 13 months, . . .	162 50	
	<hr/>	\$4,567 92

REPAIR LEAKS—MAIN PIPES.

Stock,	\$507 43	
Labor,	581 06	
Charges by Boston & Maine R. R., . . .	29 20	
	<hr/>	\$1,117 69

REPAIR SERVICE LEAKS.

Stock,	\$79 21	
Labor,	228 16	
	<hr/>	\$308 07

CLEANING SERVICE OUTSIDE.

Stock,	\$46 50	
Labor,	214 95	
	<hr/>	\$261 45

CARE OF HYDRANTS.

Stock,	\$7 89	
Labor,	116 31	
	<hr/>	\$124 20

REPAIRS—GATES, GATE-BOXES, ETC., AND CARE OF REGULATOR.

Labor,	\$1,319 31	
Stock,	143 41	
	<hr/>	\$1,462 72

INSIDE SERVICES AND CHARGES.

Labor,	\$339 85	
Stock,	625 43	
	<hr/>	\$965 28

Amount carried forward, . . .		\$8,807 33
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Amount brought forward, . . . \$8,807 33

RENEWALS.

Street or way.	Pipe		Gates		Hydrants	Cost		Total
	Length	Size	No.	Size		Stock	Labor	
Cottage st..	6	4	...	...		\$ 5.90	\$ 2.00	\$ 7.90
Eighth st...	405	6	...	...		242.20	120.44	362.64
Emerson st.	288	8	...	...		...	...	...
" "	26	4	2	8		278.87	69.72	348.59
First st....	3	6	...	...		4.31	8.45	12.76
Faxon st....	3	6	...	...		6.15	4 00	10.15
Florence av.	3	6	...	...		6.90	2.00	8.90
Foster st...	80	8	...	...		80.14	20.49	100.63
Gooch st...	3	6	...	...		3.50	2.00	5.50
Goss av....	5	6	...	...		6.69	2.00	8.69
Grove st....	3,476	8	2	8	3	...	...	...
" "	56	6	4	6		...	...	...
" "	36	4	4	4		3,005.67	936.76	3,942.43
Grundy st..	250	6	...	...		130.20	41.88	172.08
Hurd st....	787	6	3	6		478.70	206.00	684.70
Larrabee st.	4	6	...	...		10.15	4.00	14.15
Lynde st ...	1,817	6	4	6		...	...	...
" "	27	4	...	...		1,043.35	436.41	1,479.76
Walnut st..	200	4	...	...		71.70	32.88	104.58
Waverly pl.	688	6	1	6	1	409.53	165.42	574.95
Total.....	8,163	116	20	44	4	\$5,783.96	\$2,054.45	7,838 41

STOCK ACCOUNT.

Am't paid for cast iron pipe and fittings,	\$6,344 79
" " " hydrants,	902 50
" " " gates and gate-boxes,	727 73
" " " castings,	282 72
" " " regulator,	825 00
" " " meters,	308 00
" " " lead and solder,	591 68
" " " brick laid,	28 80
" " " freight,	58 07
" " " lead lined pipe and fittings,	857 47
" " " brass fittings,	782 98

Amounts carried forward, . . \$11,709 74 \$16,645 74

Amounts brought forward,	. \$11,709 74	\$16,645 74
Am't paid for lead pipe,	. . . 159 44	
" " " galvanized iron pipe,	. . . 11 50	
" " " cement, sundries, sewer yard,	71 01	
" " " oil, tools and sundries,	112 58	
" " " labor, includ. inside services,	662 53	
		<hr/>
		\$12,726 80

CR.

Stock used on maintenance,	\$781 75	
" " " construction,	8,282 23	
" " " outside services,	283 45	
" " " labor, inside		
services,	965 28	
	<hr/>	\$10,312 71
Balance stock,		\$2,414 09
		<hr/>
Amount carried forward,		\$19,059 83

CR.

By sundry collections,	. . . \$1,823 95	
" stock balance,	. . . 2,414 09	
" summons,	. . . 65 80	4,303 84
		<hr/>
Total,	. . . . .	\$14,755 99

If from this amount, \$14,755.99, is deducted \$7,838.41, cost of renewals, which in previous years has been charged to construction, it would leave the net cost of maintenance only \$6,917.58 (for thirteen months) or less than any year since 1885.

CONSTRUCTION.

There has been little new work done the past season that could be considered purely construction, as the taking out of cement pipes and substituting iron ones is classified under renewals and is charged to maintenance.

The work done and its cost follows:

EXTENSIONS.

Street or way	Pipe		Fixtures			Stock	Labor	Total
	Length feet	Diameter inches	Gates		Hydrants			
			No.	Size				
Wyoming av. ....	.....	.....	.	.	.	* \$963.00	\$ 84.48	\$1,047.48
Beech av....	13	6	1	6	1	57.35	11.94	69.29
Clifton pk..	162	4	.	.	.	58.65	46.57	105.22
Grove st....	473	8	1	8	.	407.85	127.44	535.29
Hurd st....	580	6	3	6	.	358.02	155.03	513.05
Lebanon st.	8	6	.	.	1	38.42	5.03	43.45
Leeds st....	215	6	1	6	.	130.26	91.15	221.41
Lynde st....	533	6	.	.	.	306.05	257.34	563.39
Perkins st..	111	6	.	.	.	83.14	40.15	123.29
Potter st....	181	6	.	.	.	91.39	34.34	125.73
Scattered ...	1,038	¾	.	.	.	283.45	181.28	464.73
Totals	3,314	54¾	6	26	2	\$2,777.58	\$1,034.75	\$3,812.33

*Regulator put in on main line.

RECAPITULATION.

MAINTENANCE—GENERAL.

General,	\$4,567 92	
Repair leaks main pipes, . .	1,117 69	
“ service pipes,	308 07	
Cleaning outside services, .	261 45	
Care hydrants,	124 20	
“ gate boxes,	1,462 72	
“ inside services,	965 28	
		\$8,807 33
Renewals, stock,	\$5,783 96	
labor,	2,054 45	
		\$7,838 41
Stock balance,		2,414 09
Amount carried forward, . . .		\$19,059 83

Amount brought forward,	\$19,059 83
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CONSTRUCTION.

Regulator,	\$1,047 48	
Extensions,	2,300 12	
New services,	464 73	
	<hr/>	\$3,812 33
Cash balance,		318 24
		<hr/>
Total,		\$23,190 20

STATEMENT OF RECEIPTS AND EXPENDITURES.*

Amount appropriated,	\$22,000 00	
Receipts,	1,190 20	
	<hr/>	\$23,190 20
Total labor per pay roll,	\$8,830 90	
" invoices per bill book,	14,041 26	
	<hr/>	\$22,872 16
Treasury balance,	318 04	
	<hr/>	\$23,190 20

SEWER DIVISION.

The work in this division of the public works department has been small in comparison with the amount done in previous years. It has consisted chiefly in making house connections, maintaining sewers, dividing sewer assessments and adjusting such matters as were unfinished by the board of sewer commissioners.

SUITS.

The case of Frank L. Allen of Worcester vs. the inhabi-

* NOTE:—Items are not given as they appear elsewhere in this report: the receipts under sundry collections; invoices under general maintenance and stock account; labor under general maintenance and labor by streets.

tants of Melrose has been before an auditor, who has taken all the evidence. The pleas of the attorneys in the case have been submitted and they are now awaiting the result of his finding. Judging from the evidence and the testimony of the experts, Melrose need not fear a large award.

CONTRACTS.

On May 2, 1900, advertisements were inserted in the Boston and New York papers for proposals for furnishing this division with pipe and specials. Nine bids were received and opened May 10, 1900, with the result as shown below:

Canvas of bids for about 27,000 ft. sewer pipe and specials. Amount at list \$10,275.76 :

Name of Bidder and Address	Per cent. off list	Amount of bid
U. S. Clay M'fg Co., Walter M. Everts, manager, 186 Devonshire street, Boston,	74	\$2,671 70
Waldo Brothers, 102 Milk street, Boston,	72	2,877 21
David W. Lewis, 192 Devonshire street, Boston,	65	3,596 52
Harry Stevens, Melrose, Mass.,	65	3,596 52
Bryant & Kent, 30 Kilby street, Boston,	65	3,596 52
The H. Wales Lines Co., Meriden, Conn.,	65	3,596 52
Berry & Ferguson, 102 State street, Boston,	65	3,596 52
W. G. Nash 220 State street, Boston,	65	3,596 52
Perrin, Seamans & Co., 57 Oliver street, Boston,	62	3,904 79

The United States Clay Manufacturing Co., Walter M. Everts manager, 186 Devonshire street, Boston, Mass., were the lowest bidder. This firm and agent, and also quality of goods made by them was unknown to me, therefore I wrote asking them to forward samples of their pipe and also to give the names of any place or parties near Melrose where they had supplied the same. This they failed to do, and after consulting with the mayor, all bids were rejected and a contract made with Berry & Ferguson, 102 State street, Boston, Mass., for the Knowles, Taylor & Anderson pipe at

72 per cent. off the manufacturers' list, which is the same brand as all pipe used in the sewer construction, except that purchased in 1894.

Cement was bought of Waldo Brothers and brick of the Bay State Brick Co. Bids were not advertised for on either of these articles as the quantity required of each was so small.

SEWER ASSESSMENTS.

On December 31, 1899, the board of sewer commissioners levied assessments on 179 estates; by law the owners of these estates had until March 1, 1900 to have their accounts apportioned. In the meantime (Jan. 1, 1900) Melrose changed from a town to a city, and under the provisions of its charter a board of sewer commissioners was discontinued, and the city solicitor gave as his opinion that the apportionment of these accounts might be made either by the mayor or some person authorized by him. Accordingly on March 1, 1900, the mayor authorized the engineer and superintendent of public works to do this and consequently on March 1st, 104 of these accounts were apportioned and certified to the assessors.

The total amount of the sewer assessments levied to date is \$173,247.50.

Abatements made by the board of sewer commissioners to Jan. 1, 1900, (principally on public property) \$4,990.46.

Leaving total net assessment of \$168,257.04.

NOTE.—These abatements do not include certain suspension of payments for a term of years made by the board of sewer commissioners and the mayor, as by the terms of these suspensions the parties pay interest at the rate of 5 per cent. per annum on all amounts unpaid and they are virtually an extension of time.

CONSTRUCTION.

No main or common sewers have been constructed the past season. The petitions and requests of all persons for this work have been referred to the board of aldermen. It

may appear inconsistent to state that no sewer construction was actually done and in the same report to show an expenditure of \$1,864.26 sundry bills charged to sewer construction and \$1,316.46 stock.

Upon a careful examination of the following items which go to make up these amounts I think it will be readily understood without going into further detail.

EXPENDED.

Sundry bills paid account

Allen case,	\$468 70	
S. F. Howes, gravel bill 1899,	28 00	
John Martin, mason " "	90 53	
Awards land damage,	200 00	
" minor "	29 00	
Refund for tools returned,	50 00	
Sundry bills per bill book,	319 05	
Paid on pay rolls to other divisions,	177 25	
	<hr/>	\$1,362 53

Sundry accounts:

Highway division,	\$428 40	
Water "	71 01	
Park "	2 32	
	<hr/>	501 73

\$1,864 26

Stock account:

Paid for brick,	\$90 00
" " lumber,	1 08
" " cement,	232 00
" " castings,	81 00
" " pipe,	2,827 43
" " labor,	203 83
" " advertis'g,	29 80

Carried forward, . . . \$3,465 14

\$1,864 26

Brought forward,	\$3,465 14	\$1,864 26
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CR.

By stock charged:

Private sewers,	\$1,644 77	
Highway div.,	428 40	
Water “	71 01	
Maint'ce sewer,	2 50	
Parks,	2 32	
	<hr/>	
	\$2,149 00	\$1,316 14

Total,		\$3,180 40
--------	--	------------

NOTE.—A great portion of the stock purchased this year is such as will be used in the construction of private sewers, and, as fast as used, will be credited to the sewer construction account, so that eventually this account will in no ways suffer.

PRIVATE SEWERS.

At the beginning of the year I consulted with the board of health and was led to believe that it was their intention the coming season to compel practically all buildings to be connected with the common sewer. The pipe market being low, I purchased by contract quite a large quantity of pipe and fittings in anticipation of work of this kind, estimating that about six or seven hundred connections might be made, whereas only 261 premises have been connected the past year. This accounts for the large stock balance, \$1,316.14. The following is data concerning all private sewers constructed to date, Feb. 1, 1901:

SUMMARY OF CONSTRUCTION.

Year	Total length in miles	Average cut in feet	Average cost per foot	Cubic yards earth excavation	Cubic yards rock excavation	Cost per cubic yard earth excavation	Cost per cubic yard rock excavation
1895	2.096	6.33	\$0.4845	7,736.00	.....	\$0.441	.....
1896	4.042	6.03	.4543	14,303.00	190.2	.377	\$4.50
1897	2.966	6.07	.3933	10,557.00	35.0	.387	4.50
1898	2.073	5.56	.45	6,663.71	101.5	.444	2.90
1899	4.349	5.83	.4589	14,684.00	196.7	.38	4.00
1900	2.48	5.88	.4609	8,541.00	85.0	.413	4.50
Totals	18.006	5.95	\$0.4503	62,484.71	608.0	\$0.407	\$4.08

SUMMARY OF CONNECTIONS.

	1895	1896	1897	1898	1899	1900	Totals
Single houses	164	362	264	181	400	239	1610
Double houses	26	47	31	20	37	13	174
Blocks, stores and ten'm'ts	17	18	10	5	13	6	69
Tenement blocks, of four or more tenants.....	3	0	11	4	7	0	25
Churches	3	1	0	0	0	1	5
Club houses.....	1	0	0	0	0	0	1
Public buildings.....	1	5	4	3	0	0	13
Hospital.....	1	0	0	0	1	0	2
Railroad stations.....	1	1	0	2	0	0	4
Fire stations.....	1	0	0	1	0	0	2
Mills.....	0	1	1	1	0	0	3
Hotels and b'rding houses	1	1	0	1	0	0	3
Stables	1	0	1	0	1	0	3
Private schools.....	0	0	0	0	0	1	1
Laundry.....	0	0	0	0	0	1	1
Totals	220	436	322	218	459	259	1914

NOTE.—Total number constructed in 1900 and February, 1901, 261, of which 18 were connected with the state sewer.

The total cost for labor has been \$3,915.32.

The private sewer account for 1900 is as follows:

Total amount collected and paid treasurer, . . \$6,092 29

EXPENDED.

Labor as per pay rolls,	\$3,915 32	
Stock from yard,	1,644 77	
Blacksmithing,	120 99	
Tools bought,	60 58	
Oil and sundries,	72 02	
Replacing concrete,	68 62	5,882 30
	<hr/>	
Surplus,		\$209 99

\$137.37 of this amount (\$209.99) is cash on hand Jan. 1, 1900, leaving a net surplus of \$72.62. If each connection could be charged with a portion of the expense of maintaining a yard and other incidental expenses, such as stationery, books, blanks, postage, clerical help, etc., this amount (\$72.62) which appears here as a surplus would be absorbed.

Statement of collections made by the engineer and superintendent of public works to the credit of the sewer division of the public works department.

W. DABNEY HUNTER,

In account with CITY TREASURER.

DR.

To cash on hand Jan. 1, 1900,	\$262 78	
" actual cost private sewers,		
1900,	6,020 60	
To estimate of Isaac Cochran,	30 00	
" unsettled accounts, 1896,	\$59 89	
" " " 1897,	19 55	
" " " 1898,	8 31	
" " " 1899,	169 74	
	<hr/>	
	\$257 49	
Amount carried forward,		\$6,570 87

Amount brought forward,	\$6,570 87
To sundry repairs, 1900,	3 22
“ rebates unpaid,	3 98
“ sewer construction, sundry collections,	444 74
	<hr/>
	\$7,022 81

CR.

By cash paid treasurer, account private sewers,	\$6,092 29	
By cash paid treasurer, account construction,	444 74	
By abatements made by the mayor,	18 95	
By private sewer accounts un- settled, 1900,	\$180 70	
By private sewer accounts un- settled, Main street, 1900,	152 40	
	<hr/>	333 10
By private sewer accounts un- settled, 1899,	35 53	
By private sewer accounts un- settled, 1898,	8 31	
By private sewer accounts un- settled, 1896,	59 89	6,992 81
	<hr/>	<hr/>
Cash on hand, Feb. 1, 1901,		\$30 00

MAINTENANCE.

Last year in my request to His Honor Mayor Gould for appropriations for the year 1900, was an item of \$1,500.00 for sewer maintenance, which was in some way overlooked, and, although the budget as passed apparently gave all that was asked for, no sum was appropriated which could be legally expended for this purpose. A certain amount of work however was imperative and has been done, and the cost taken from the unexpended balance from sewer construction. The amount of these expenditures to date, as shown else-

where in detail, has been \$979.38. This amount, together with previous deficiencies (\$16.93) should be raised in the tax levy and refunded to the sewer construction account.

This probably can be done the coming year provided the aldermen appropriate the amount asked for, \$2,000.00. A summary of the expenditures and appropriations for maintenance to date is as follows:

Expended in 1895, . . .	\$276 10
“ “ 1896, . . .	601 04
“ “ 1897, . . .	693 32
“ “ 1898, . . .	292 08
“ “ 1899, . . .	1,891 60
“ “ 1900, . . .	979 38
	<hr/> \$4,733 52
Appropriated by the town,	
March, 1899, . . .	3,737 21
	<hr/>
Total deficiency to date, .	\$996 31

A detail of expenditures charged to maintenance for 1900 is:

Labor as per pay rolls, . . .	\$516 47
Stock from yard, . . .	2 50
Rent of yard, . . .	350 00
Labor and teams, water division, . . .	32 68
“ “ “ highway “ . . .	77 73
	<hr/> \$979 38

The number of feet of sewers cleaned and cared for each year since the system was commenced is given below:

In 1895	63,763.22	ft. of main sewer	6in. to 24in.	diameter.
“ 1896	110,426.60	“ “ “ “ “ “ “ “		
“ 1897	161,953.91	“ “ “ “ “ “ “ “		
“ 1898	165,889.91	“ “ “ “ “ “ “ “		
“ 1899	173,149.41	“ “ “ “ “ “ “ “		
“ 1900	173,149.41	“ “ “ “ “ “ “ “		

Total, 848,332.46 “ “ “ “ cared for to date, or

about 160.6 miles at a total cost of \$4,733.52, making the average cost per mile per annum a little less than \$30. When it is considered that this sum also includes the care of 17,976 miles of private sewers, it must be evident to all that both our main lines, as well as our particular or private sewers are well designed and constructed.

SUMMARY OF RECEIPTS AND EXPENDITURES OF SEWER DIVISION.

Amount of unexpended balance, Jan. 1, 1900,	\$3,303 86
Am't receipts P. S. paid treasurer by	
W. D. Hunter,	\$6,092 29
Am't receipts Con. paid treasurer by	
W. D. Hunter,	444 74
Bills collected, highway div., stock,	428 40
" " water " "	71 01
" " park " "	2 32
Am't bills collected, pub. works office,	99 00
" " " engineers' "	
paid on pay rolls,	78 25
	<hr/> \$7,216 01
	<hr/>
	\$10,519 87
Expended:	
Construction,	\$1,864 26
Stock balance,	1,316 14
Maintenance,	979 38
Private sewers,	5,882 30
	<hr/> \$10,042 08
	<hr/>
Credit balance,	\$477 79

HIGHWAY DIVISION.

It would seem that nothing more could be said in regard to the poor condition or untidy appearance of the highways; their condition has been criticised since Melrose was set

apart from Malden and probably will be when we become a part of Greater Boston. The topic has become as conventional as that of the weather and many of the remarks concerning them are equally ridiculous and untrue. It has become a habit to run down their condition; apparently people do not consider the amount of money appropriated, nor the amount required to construct a street similar to those seen in some of the neighboring cities. Evidently their attention has not been called to the fact that our entire appropriation of \$20,000.00 would not construct a mile of such streets as may be seen in some parts of Malden, Somerville, Cambridge, Brookline or Newton, the approximate cost per foot of which is as follows:

Macadamizing, 1 ton of stone, placed and		
rolled,		\$1 00
Curbing, 2 lin. ft. set, @ \$ 60		1 20
Gutters paved with granite blocks, $\frac{2}{3}$ sq.		
yds. @ 3 00		2 00
Sidewalks paved with ordinary bricks,		
1 $\frac{1}{3}$ sq. yds., @ 85		1 13
		<hr/>
Total,		\$5 33

If surface drainage is taken into consideration, \$1.25 per running foot should be added, making \$6.58 per running foot or about \$35,000.00 per mile. To construct all of the public streets in Melrose, 42.24 miles, in this manner, not including crossings, retaining walls, railings, etc., would cost \$1,478,400.00.

As an offset against this expense Melrose now has approximately 3.6 miles of macadamized roadways, 0.4 miles of brick sidewalks, 33.4 miles of concrete sidewalks, 510.0 feet of granolithic walks, 2.5 miles of straight curbing, 780.0 feet of curved curbing, 2.7 miles of paved gutters, 3 brick crossings total length 97.1 feet, 106 concrete crossings total length 0.57 miles, 64 granite crossings total length 0.42 miles, the total value of which is about \$100,000.00.

GRAVEL BANKS.

The city owns no gravel banks, and pays a considerable sum annually for gravel; last year it amounted to \$305.95.

The streets can be repaired or built much cheaper with gravel than with crushed rock, and until the appropriation is increased, or the gravel roads put in better condition, I do not feel justified in using any great quantity of crushed rock; therefore, the coming season it is expected to use a great deal more gravel than in previous years. If the city could afford to buy pits, gravel could be obtained cheaper, and the city would still own the land after the gravel was removed, and could probably dispose of it for nearly the original cost.

Last year in a number of instances gravel was obtained from the highways by cutting off knolls or hills and the material used on other portions of the street; this was done on Morgan, North and Highland avenues, the Ravine road and Washington street. Two kinds of gravel are needed, viz: "blue gravel" and "free gravel." The blue gravel can be used to best advantage in sandy sections and the free gravel in wet or marly districts; the latter makes the best road, but it takes longer to pack down and become smooth. Nothing makes a better summer road than blue gravel, but in the spring when the frost comes out of the ground, they are very soft and muddy. The best result is obtained from a mixture of the two, using the free or sandy gravel on the bottom of the roadway and covering it with a thin layer of screened blue gravel, then thoroughly wetting the whole, and rolling it to a hard, even surface.

CITY STABLES AND YARD.

Melrose needs a city stable and a yard from which to do all of the business of the public works department. The work could be more economically and satisfactorily done from a common yard than under present conditions, as we practically have no headquarters.

Early in the year this matter, with estimates and recom-

mendations, was called to the attention of the mayor, Mr. Gould, who in turn referred it to the board of aldermen, where the matter now rests awaiting their action. I can only repeat my recommendations made at that time. The question seems to be on a suitable location. I feel that the yard should be on the line of the railroad, it does not matter so much about the stable. If any great quantity of work is done, such as curbing, brick sidewalks or drainage, a large quantity of material will come by rail and it would be impractical to dispense with a storage depot on the line of the railroad, as otherwise much of the material would have to be handled and hauled twice.

CONSTRUCTION AND REPAIRS, 1900.

Bellevue avenue. Early in the season portions of Main, Essex and Green streets were repaired. As they had previously been macadamized and therefore had a good foundation, only the smaller size of crushed rock or pea stone was used; this left a large quantity of the coarser stones at the crusher which were in the way and a place to put them was sought. Stakes were set and a grade fixed on Upham street but before doing the work, upon examination of the records of breaks in water pipes, it was found that the water main was in a poor condition and needed renewing. Franklin street, between Main street and the railroad tracks, was considered and the same objection found; Grove street was also considered but required drainage, which for lack of funds could not be done. Thus many streets were found which needed to be repaired or rebuilt but which also needed some other work, necessitating digging them up, and, realizing the importance of not thoroughly rebuilding any street until all such improvements had been made, Bellevue avenue was decided upon. At the place rebuilt, no drainage of any consequence was needed, it also had a fairly good water pipe, all estates were connected with the sewer, therefore, there appeared to be small chance that its surface would be disturbed for many years. These facts together with its poor condition, were the only reasons why

this street was selected. One catch-basin was built on the northeast corner with a temporary out-let into the north gutter on Emerson street, which is so arranged that it can readily be connected with a drain in Emerson street provided it is ever built. The street was excavated to a sub-grade 8 inches below the finished grade, thoroughly rolled to a hard surface, then covered with an 8 inch layer of coarse stone, and pea stone and dust being added as needed, and the whole thoroughly watered and rolled. This does not make such a satisfactory road the first season as when clay is used, but continues to grow better with wear, whereas one constructed by the other method soon becomes muddy.

This was the only attempt made at macadamizing the past season, the rest of the streets have either been patched or constructed of gravel.

Emerson street, at the junction of Orient avenue was cut down two feet to conform with a grade fixed for Mr. Edward Babb by the board of selectmen. The street was partly graveled or covered with crushed stone but was left in an unfinished condition to attend to more urgent repairs and will have to be completed the coming season. The same may be said of Orient avenue where it joins Emerson street.

Franklin street, from Main street to Sargent street was re-surfaced temporarily with gravel and the entire length gone over; gutters cleaned and cradle holes filled.

Ferdinand street. A continuous concrete walk was built on the east side which made it necessary to build two retaining walls with iron guard railings, and a small amount of other work; the gutters along this curbing should be paved and the street graveled over.

Green street, on the west side of the car tracks from Porter street to Avon street was resurfaced with pea stone; nothing more substantial was done as it was realized that the water main was in a poor condition and needed to be relaid.*

Grove street, on which is a great deal of travel, is in a very

*NOTE.—Seven breaks have already occurred since the work was done and as a consequence the street is now in poor condition.

bad condition and must remain so until some steps are taken towards drainage, as its condition is entirely due to the action of the surface water. It takes the wash from a large territory and each storm washes it so badly that it is made dangerous to travel. This report shows no large sum expended as most of the repairs have been charged either to general maintenance or to catch-basins and drains. For further remarks, reference is made to a special report to the board of aldermen on order No. 358, made July 30th, 1900.

Highland avenue, from Sargent street to Ashland, was regraded; the hill at Cliff street cut off and the material used here and on Morgan avenue as before stated. Mr. T. W. Ripley requested to have the line changed by connecting two straight lines, which came together making an unsightly angle, by a tangent curve, offering to donate the land provided the change was made. The matter was referred to the board of aldermen who now have it under advisement. The improvements were made to correspond to the change as asked for.

Main street, from Sylvan street to the Wakefield line, was patched and the worst places repaired. In many instances, between Franklin street and the Wakefield line, the car tracks were lower than the gutters; bunches of ledge and large boulders were within a few inches of the surface, and in some cases were in sight and came in contact with the wheels of vehicles and was only prevented at others by being filled over. It was decided to let this piece of work by contract. Advertisements were placed in the local papers and on June 20th, 1900, bids were opened as follows:

Norris & Co.,	.	.	.	.	\$2,309 25
Robert Philpot,	.	.	.	.	\$1,930 00
C. L. Hoffman,	.	.	.	.	\$1,496 50
F. W. Hoffman,	.	.	.	.	\$1,437 00*

The bid of Frank W. Hoffman was accepted and the work completed at an expense of \$1,490.30 made up as follows:

For picking up and regrading, . . .	\$896 50
“ relaying 718.8 sq. yds. paving, @ .29	208 45
“ furnishing, hauling, spreading, watering, rolling and all other incidental work 770.7 cu. yds. gravel, @ .50,	385 35
Total,	\$1,490 30*

From the foregoing it will be seen that the principal items of expense was the regrading. The lack of funds made it necessary to construct this road of gravel, but it is useless to try to make a gravel roadway stand the travel on any street through which there is a car track, for the wear is not distributed evenly over the surface but comes in one place. If crushed stone is used it will last for a time but, although the first cost is greater, the most economical road to build on such streets is a paved one.

Morgan avenue, the top of the hill was cut off 18 inches and the material used on other parts of the street. The old “sleeper” culvert at the west end near Spring street was taken up and replaced with one of 15 inch vitrified pipe; the roadway widened to its full width with the ledge and boulders taken from Main street and Highland avenue, and now, although far from being a boulevard, is greatly improved.

North avenue and Walton park were both dressed over; the holes filled and the center of the street crowned. Walton park is particularly unsightly, owing to the very ragged condition of old concrete gutters which were originally only a veneering of tar and sand over the top of ledges which should have been blasted out and can be remedied only by paving “dished” gutters or by edgestones and paved gutters.

Upham street, from East street to the Saugus line, was graveled and put in fair condition; the ditches along the sides were dug out and the center of the street crowned to shed the water.

*NOTE.—The apparent discrepancy between the amount of bid of F. W. Hoffman and the amount paid on contract is due to the difference between the estimated quantities of work to be done and that actually performed by and under the contract.

Washington street, from Lynde avenue to Stoneham line, was unsafe, and as it was one of the entrances into the park, it was rebuilt of gravel; the hill at the park entrance was cut down and the material used to re-surface the roadway, which was not quite sufficient and two small portions near the Stoneham line and another near Lynde avenue were surfaced with gravel from "Baldwin's pit." This gravel contains too much clay and the road at these places is not so good and will have to be covered with pea stone.

Wyoming avenue, from Cleaveland street to the Stoneham line, was regraded and graveled over and is now in a very good condition. The gravel was obtained from the knoll just west of the Ravine road, and from one on the Ravine road.

The Ravine road was regraded and graveled over from Wyoming avenue to the Stoneham line, the knoll cut off and the material used on this road and on Wyoming avenue, and is now in as good a condition as any gravel road can be.

Other streets on which smaller repairs were made are as follows: Ashland street covered with pea stone, gravel, and rolled; Everett street was gravelled; Howard street crushed stone was placed in bad places; Porter street graveled in places; Sargent, School and Spear streets graveled, sidewalks were built and street surfaced.

Other minor repairs were made as will be seen from the detail of expenditures at the close of this report, which also shows the cost of all work mentioned.

DATA CONCERNING MELROSE.

42.24	miles of accepted streets.
10.85	" roads open to public use, not accepted.
11.94	" county comissioners roads (which are also included in the 42.24 miles of accepted streets.)
1.486	miles electric car lines (double track.)
5.814	" " " " (single track.)
0.102	" turnouts.
2.201	" steam railroad (double track.)
5.0	grade crossings.

REMOVAL OF SNOW.

The removal of snow, and the question of how much of its expense should be borne by the street railroad company, is a subject of much discussion, not only in Melrose but throughout the state. It is claimed by the railroad companies that by Chapter 578 of the Acts of 1898, providing for the payment by them of an excise tax, also relieves them of the burden of caring for any part of highways through which they run. The truth or soundness of this claim has not as yet, to my knowledge, been determined by the courts.

The past year the city paid for one half and the railroad company the other. Although it was snowing on the morning the city government organized, Jan. 1st, 1900, and not receiving my temporary appointment until about 10.30 o'clock, this arrangement was made in season to care for the snow which fell that day and was continued throughout the year.

The basis for this arrangement is the assumption and claim, which is partially true, that the removal of snow is made necessary both by the clearing off of the sidewalks and the tracks, one of which is the act of the city, the other of the railroad company.

The snow is removed from the sidewalks by snow-plows and the length plowed is 76.93 miles, which is divided into 11 routes, one plow and horse to the route as follows:

Lebanon and Grove streets, and east of Lebanon street, and south of Grove street, 7.17 miles. J. R. Gibbons.

West of Lebanon street, to B. & M. R. R. and south from center of Grove street, 6.91 miles. F. A. Pratt.

North from Porter street, and east of B. & M. R. R., inclusive of Porter street, 16.00 miles. A. W. Lynde.

South of north line of Wyoming avenue and west of B. & M. R. R., 8.37 miles. J. Gibbons, Jr.

West of B. & M. R. R., between Wyoming avenue and Perkins street, 10.70 miles. F. Howes.

North from south line of Perkins street, and west of B. & M. R. R., 8.62 miles. C. Hoffman.

East of B. & M. R. R., between Grove and Porter streets
19.06 miles. Highway division.

CATCH-BASINS AND DRAINS.

Six new catch-basins have been constructed, located as follows: two on Lebanon street, just south of Upham street; two on Main street, just north of West Linden street; one on Bellevue avenue, at northeast corner of Emerson street; one on Laurel street, at southeast corner of Sixth street.

These catch-basins are of an approved design and are similar to those built by the city of Boston, constructed of brick with granite covers and cast iron traps. We have on hand 12 sets of covers and traps.

The only drain laid permanently is the short piece of 15 inch pipe laid on Main street, from the culvert at the foot of Reading Hill south about ninety (90) feet, which is laid in concrete with joints cemented, and is a part of the designed system.

Other drains have been taken up, cleaned, repaired and relaid, but are not considered as new work.

BRIDGES AND CULVERTS.

Many new culverts are needed. On some of our public streets culverts exist several years old, which when constructed, were covered with green saplings. These are unsafe and should be replaced with either stone or concrete ones. Other culverts need enlarging or lowering, principal of which are the two on Upham street, one near Fletcher street and the other near the Saugus line; one on Porter street at the junction of Fletcher street; and one on Swain's Pond avenue, half way from Grove street to the pond.

CROSSINGS.

Three new brick, one stone and brick, and four concrete crossings were built. On streets where the traffic is light crossings of paving brick can be built, which are smoother than granite flagging and do not cost as much. The cross-

ing on Tremont street at Union street is composed of two lines of granite flagging, with brick paving between, and granite paving along the outside edges. This makes a very smooth and durable walk.

STONE CRUSHER.

Following is the cost of running the plant, together with the earnings :

Am't paid for coal,	\$226 00	
" " " labor and teams, . .	2,104 66	
" " " supplies,	50 23	
" " " express and freight, .	8 01	
" " " castings,	193 45	
" " " powder and exploders, .	34 61	
" " " blacksmithing, . . .	3 10	
" " " oil,	15 48	
" " " lumber,	37 60	
	<hr/>	\$2,673 14
Crushed stone used on streets and by other divisions of the public works department,	\$2,103 70	
Pavings,	64 40	
Stone,	10 81	
Pipe,	35 10	
Gravel,	3 40	
Sand,	25 00	
	<hr/>	\$2,242 41
Stone furnished to private parties with labor and teams, etc.,	165 50	
	<hr/>	2,407 91
		<hr/>
		*\$265 23

*Note :—To offset the \$265.23, which appears as a deficiency or loss, there is on hand at the crusher yard :—300 loads crushed rock, 30 loads paving stones, 50 loads sand, also stone in the ledge ready to crush.

STEAM ROLLER ACCOUNT.

Am't paid for coal and wood, . . .	\$162 50	
" " " new driving wheel, . . .	140 00	
" " " special parts, . . .	30 05	
" " " freights on same, . . .	36 65	
" " " setting up and teaming, . . .	10 25	
" " " blacksmithing, . . .	7 25	
" " " supplies and minor parts, . . .	34 39	
" " " labor on repairs, . . .	37 00	
	<hr/>	\$458 09
Charged for use on streets and by other divisions, 123¾ days use, . . .	244 21	
Received for use of roller, . . .	73 88	
	<hr/>	318 09
Balance,		*\$140 00

STABLE ACCOUNT.

The amount earned, charging \$1.25 per day for each horse, for actual time employed is		\$1,647 16
Am't paid for rent of stable, 13 months, . . .	\$195 00	
" " " hay and straw, . . .	271 10	
" " " grain, . . .	392 35	
" " " repair and care of stable, . . .	144 84	
" " " shoeing, . . .	102 35	
" " " medicine and attendance, . . .	11 05	
" " " painting carts, . . .	20 00	
" " " repairs carts, chains, etc., . . .	30 00	
" " " harnesses, . . .	14 77	
" " " oil and sundries, . . .	6 64	
" " " one double sled, . . .	30 00	
" " " stable blankets, . . .	12 00	
	<hr/>	1,230 13
Balance passed to the credit of minor repairs in this report,	†\$417 03	

*Note:—The \$140.00 given here as a deficiency is occasioned by the breaking of a wheel on the roller and was not charged to this account until after it was balanced as it was hoped that the manufacturer would supply it without charge.

† NOTE:—The \$417.03 represents the amount saved by the city owning its own teams and is earned by one double and three single teams. We now hire more than half of our teaming done.

EXPENSE OF THE HIGHWAY DIVISION IN DETAIL.

Amount of appropriation,		\$20,000 00	
January bills allowed,	\$1,237 81		
Excise tax,	1,485 93		
Receipts by P. W.'s office, paid treasurer,	285 14		
Rec'pts from water div. stock and labor,	21 63		
" " sewer " " " "	77 73		
" " sidewalk " " " "	94 00		
" " st. sprinkling, " " "	234 13		
" " engr's office, " " "	26 63		
" " city hall, " " "	12 94	3,475 94	
<hr/>			
Total,		\$23,475 94	

EXPENDED.

Ashland street, labor, teams			
and rolling,	\$51 60		
Crushed stone and gravel,	29 80		
		81 40	
Bellevue avenue, labor, teams			
and rolling,	754 79		
Crushed stone and gravel,	617 25		
		<hr/>	1,372 04
Elm street, labor, teams and			
rolling,	10 00		
Crushed stone and gravel,	5 25		
		<hr/>	15 25
Belmont street, labor and			
teams,		20 46	
Emerson street, labor, teams			
and rolling,	195 83		
Crushed stone and gravel,	92 65		
		<hr/>	288 48
<hr/>			
Amounts caaried forward,	\$1,777 63	\$23,475 94	

Amounts brought forward,	\$1,777 63	\$23,475 94
Essex street, labor, teams		
and rolling,	\$410 04	
Crushed stone and gravel,	190 70	
	<hr/>	600 74
Everett street, labor and		
teams,	45 62	
Gravel,	3 40	
	<hr/>	49 02
Franklin street, labor, teams		
and rolling,	184 99	
Crushed stone and gravel,	28 00	
	<hr/>	212 99
Ferdinand street, labor and		
teams,	107 40	
Gravel and iron rail, . .	167 33	
	<hr/>	274 73
Green street, labor, teams		
and rolling,	309 89	
Crushed stone and gravel,	138 50	
	<hr/>	448 39
Grove street, labor and		
teams,	53 72	
Crushed stone and gravel,	30 10	
	<hr/>	83 82
Harvard street, labor and		
teams,		8 69
Highland avenue, labor,		
teams and rolling, . .	528 23	
Gravel,	21 50	
	<hr/>	549 73
Howard street, labor, teams		
and rolling,	105 25	
Crushed stone and gravel,	75 90	
	<hr/>	181 15
Amounts carried forward,	\$4,186 89	\$23,475 94

Amounts brought forward,	\$4,186 89	\$23,475 94
Hurd street, labor, teams and rolling,	\$32 34	
Crushed stone and gravel,	15 75	
	<hr/>	48 09
Laurel street, labor and teams,	12 00	
Gravel and loam,	13 99	
Invoices, filling lots Patter- son and Lux,	30 00	
	<hr/>	55 99
Lebanon street, labor and teams,	61 51	
Gravel,	2 30	
	<hr/>	63 81
Linden street, labor and teams, (gravel from Green street)	37 47	
Stone dust,	1 50	
	<hr/>	38 97
Lynde street, labor, teams and rolling,	23 82	
Crushed stone and gravel,	12 50	
	<hr/>	36 32
Main street, contract, . .	1,490 30	
Labor, teams and rolling,	1,587 32	
Crushed stone, gravel and pavings,	576 65	
	<hr/>	3,654 27
Melrose street, labor and teams,	31 00	
Gravel,	80	
	<hr/>	31 80
	<hr/>	<hr/>
Amounts carried forward,	\$8,116 14	\$23,475 94

Amounts brought forward,	\$8,116 14	\$23,475 94
Morgan avenue, labor and teams, \$149 18		
Gravel, 13 00		
	<hr/>	162 18
Mt. Vernon street, labor and teams, 47 24		
Gravel, 9 60		
	<hr/>	56 84
Mystic avenue, labor and teams, 24 41		
Gravel, 30		
	<hr/>	24 71
North avenue, labor, teams and rolling, 57 35		
Gravel, 1 60		
	<hr/>	58 95
Orient avenue, labor and teams, (gravel from Emerson street),		62 10
Porter street, labor and teams, 40 12		
Gravel, crushed stone and paving, 78 11		
	<hr/>	118 23
Sargent street, labor, teams and rolling, 138 80		
Crushed stone and gravel, 15 80		
	<hr/>	154 60
School street, labor and teams, (gravel from the street),		174 50
Sewall street, labor and teams, (gravel from the street),		8 00
Spear street, labor and teams, 108 75		
Gravel, 11 10		
	<hr/>	119 85
Amounts carried forward,	\$9,056 10	\$23,475 94

Amounts brought forward,	\$9,056 10	\$23,475 94
Swain's pond avenue, labor		
and teams,	46 31	
Gravel,	15 00	
	<hr/>	61 31
Upham street, labor, teams		
and rolling,	215 77	
Gravel,	28 60	
	<hr/>	244 37
Walton park, labor, teams		
and rolling,	106 88	
Gravel,	10 70	
	<hr/>	117 58
Washington street, labor,		
teams and rolling, .	693 87	
Gravel bought, balance		
used from Ravine road,	17 90	
	<hr/>	711 77
Whittier street, labor and		
teams	\$17 44	
Gravel,	2 40	
	<hr/>	19 84
Wyoming avenue, labor,		
teams and rolling,		
gravel from street and		
Ravine road,		784 51
Bridges and culverts, labor		
and teams,	526 33	
Award damage, . . .	100 00	
Pump and coal, . . .	86 20	
Lumber and hardware, .	84 97	
Crushed stone, brick and		
cement,	192 79	
	<hr/>	990 29
	<hr/>	<hr/>
Amounts carried forward,	\$11,985 77	\$23,475 94

Amounts brought forward,	\$11,985 77	\$23,475 94
Catch-basins and drains, cleaning,	203 06	
Repairs, labor and and teams,	455 13	
Stock,	85 79	
	<u>536 92</u>	
New work, labor and teams,	219 63	
Materials,	517 19	
	<u>736 82</u>	
		<u>1,476 80</u>
Crossings, concrete and re- pairs,	65 74	
Brick, granite and labor, . .	132 95	
Brick, granite, cement, etc.,	130 74	
	<u>329 43</u>	
Cleaning brooks, labor and teams,	182 99	
Cleaning crossings, labor and teams,	1,056 50	
Cleaning streets, labor and teams,	2,138 44	
General maintenance:		
James Marshall, 13 mos.,	1,083 33	
W. H. Martin, " "	235 50	
Labor,	12 25	
Allowed J. Marshall, use of horse and buggy 13 mos.,	166 50	
	<u>1,497 58</u>	
Minor repairs, labor, teams and material,	497 22	
Paving gutters, labor and teams,	\$195 23	
Pavers and sand,	65 80	
	<u>261 03</u>	
Amounts carried forward,	\$19,425 76	\$23,475 94

Amounts brought forward,	\$19,425 76	\$23,475 94
Snow removal, labor and teams,	1,046 58	
Sand for walks,	73 10	
	<hr/>	1,119 68
Street signs, invoices and labor,		82 30
Tool account, new and re- pairs to same,		298 97
Tree account, trimming and culling out, labor and teams,		448 36
Roller account, new wheel,		140 00
Sundry accounts:		
Water div., stock and labor,	21 63	
Sewer " " " "	77 73	
Sidewalks, " "	234 13	
Engineer's office on pay roll,	26 63	
Sundry persons, stock and labor,	295 44	
	<hr/>	749 56
City hall, stock and labor, .	12 94	12 94
Stock account:		
Balance at crusher, Lin- wood avenue,	265 23	
Balance at yard, Tremont street: paving brick for walks,	56 00	
Catch-basin stone and castings,	289 00	610 23
	<hr/>	<hr/>
Total,		\$22,887 80
		<hr/>
Balance in hands of treasurer,		\$588 14

RECAPITULATION.

Appropriation,		\$20,000 00
January account allowed,	\$1,237 81	
Excise tax,	1,485 93	
Collections for stock, etc.,	752 20	3,475 94
		<hr/>
		\$23,475 94

EXPENDED.

For labor as per pay rolls,	\$16,396 90	
“ hay, grain and straw for stable,	663 45	
“ one double sled,	30 00	
“ supplies for stable, crusher, roller and tool account,	299 83	
For blacksmithing and repair tools,	283 49	
“ rent of stable, 13½ months,	202 50	
“ coal and wood,	424 50	
“ lumber and hardware,	165 17	
“ cement,	51 00	
“ brick,	92 50	
“ sand,	70 25	
“ gravel,	258 00	
“ iron pipe for guard rail,	44 93	
“ granite for catch-basins,	276 00	
“ “ “ crossings,	26 00	
“ paving brick for crossings,	124 21	
“ castings for crusher,	193 45	
“ parts for steam roller,	170 05	
“ castings for catch-basins,	139 24	
“ freights and express charges,	79 31	
“ advertising,	13 38	
“ powder and exploders,	64 27	
“ drain pipe from S. E. Benson,	5 44	
“ sign boards,	80 25	
“ painting city carts,	20 00	
“ concrete crossings and repair same,	65 74	
	<hr/>	
Amounts carried forward,	\$20,239 86	\$23,475 94

Amounts brought forward,	\$20,239 86	\$23,475 94
For office supplies,	42 40	
“ insurance,	42 15	
“ medical attendance and medicine for stable,	12 65	
For Main street contract (less stock furnished),	1,373 49	
For retaining wall, Ferdinand street, “ grading lots damaged by change of grades,	115 00 32 40	
For award damage for flowage and injuries to help,	156 97	
For allowed J. Marshall for use of horse and buggy, 13 months,	166 50	
Paid two months salary to J. Marshall on invoices not included in pay rolls,	166 66	
For use of steam pump at Main street culverts,	50 20	
For stock, cement and pipe, sewer division,	428 40	
For stock, pipe, water division,	61 12	
	<hr/>	
Total bills approved,		22,887 80
		<hr/>
Unexpended balance,		\$588 14

DRAINS.

Melrose has few surface water drains. Those that exist are small, poorly constructed and inadequate to care for the water. They have been constructed from time to time without reference to any line or grade, and of a size usually fixed by a not too careful guess or by the amount of funds available. Catch-basins, not much larger than a bushel basket, were built with a direct outlet into these drains, and

as a consequence, most of them are at the present time entirely filled, or nearly so, with a sediment; they have no manholes or other means of access, and cannot be cleaned unless taken up and relaid. On Grove street where this was done the pipes were found broken and would not hold together to be lifted from the trench, proving that in many cases they should be entirely discarded and new ones built, as to put many of them in proper condition would require the expenditure of an amount larger than it did to originally build them; others however are in better condition and with a reasonable expenditure could be made to care for the water reaching them, and prolong their usefulness many years. To illustrate, take for example the drain in Upham and Essex streets, running from the brook to Cedar park, which is 2,600 feet long, varying in size from 12 to 18 inches, is connected with 23 catch-basins, and drains a territory of 33.7 acres. By reference to the special report on a system of surface drainage, made November 19, 1900, it will be seen that it is recommended to eventually divide this area into two parts and construct a new drain from Cedar park, across the railroad tracks, through Vine, Myrtle and Winthrop streets, and across the high school lot to the brook, thereby relieving this drain of about one-half of its territory.

It would not be inconsistent with the system as designed, to at the present time construct a part of the new drain, viz: from Cedar park across the railroad tracks to Essex street, and there connect it temporarily with the Essex street drain, build manholes, revise the present catch-basins and thoroughly clean the drain. This in a great measure would remedy the present bad condition existing at Cedar park near the Melrose station, and all the work done could be utilized as a part of the completed system, when more funds were available.

It must be plain to the most conservative that some steps are necessary to improve present drainage, and if the expense of the system as outlined in the special report is greater than the city can at the present time afford, then some other course should be pursued.

The work done the past season has been well done ; all pipes have been laid accurate to line and grade, with joints cemented, and the catch-basins constructed of brick laid in mortar; they are four feet in diameter, eight feet deep, trapped and covered with granite flagging. The catch-basins have been kept clean. The entire cost of this work has been \$1,476.80, which was paid from the appropriation for highways, where the expenditures are shown in detail.

A summary of all drains is as follows:

470 feet	6 inch	pipe.	290 feet	20 inch	pipe.
915 "	8 "	"	976 "	24 "	"
10,277 "	10 "	"	890 "	covered	conduits.
6,556 "	12 "	"	210 "	open	"
6,863 "	15 "	"	233	catch-basins.	
2,120 "	18 "	"	10	manholes.	

SIDEWALKS.

Section 2 of Chapter 21 of the city ordinances reads: All sidewalks built after April 1, 1900, shall be constructed of brick or such other material as shall be recommended by the engineer and superintendent of public works, and shall have a granite curbstone set along the gutter or outside edge unless the board of aldermen shall specify sidewalks or curbs in certain cases to be built of other material or the curb omitted.

It will be seen that this ordinance very materially increased the cost of sidewalks, for, until the present year curbstones were not furnished and set by the city as a part of the walk but were furnished by the individual and set by the city.

The cost of an ordinary brick sidewalk with edge-stone is about \$1.30 and of a concrete walk with edge-stone, about \$.85 per running foot, while the cost of a concrete walk without engestone, as previously built, would be about \$.25 per running foot. Thus it will be seen that, had the appropriation been the same this year as last, the length of

sidewalk constructed could only have been one third to one fifth as much.

The appropriation for sidewalks last year was less than any year since 1894, when it was the same.

The amount asked for in my request to the mayor was \$5,000.00, for, as stated to him at that time, more than 50 per cent. of the inhabitants receive a larger benefit from money expended on sidewalks than that expended on highways, and therefore I diminished the amount of my request for highways and increased that for sidewalks; but only \$2,500.00 was appropriated, which was entirely inadequate to do the amount of work asked for, as will be seen from the following tabulated lists:

CONCRETE WALKS ORDERED BY THE BOARD OF ALDERMEN.

No. 410.	West Linden street, N.	
"	side Main to Green,	\$490 82
No. 225.	Ferdinand street,	630 10
" 273.	Chester "	83 16
" 341.	Lake avenue,	86 02
" 296.	Main street,	621 83
		<hr/> \$1,911 93

PETITION FOR CONCRETE WALKS RECEIVED BY THE BOARD OF ALDERMEN.

No. 488.	Rowe street, W. side No. 22	
	to No. 32,	\$76 59
No. 488½.	Lebanon street, 517 to	
	Emerson street,	322 63
No. 497.	E. Foster street, Gooch	
	street to Larrabee, south side, .	695 53
No. 440.	Crescent avenue, No. 87 to	
	95 inclusive,	149 98
		<hr/>
Amounts carried forward,	. \$1,244 73	\$1,911 93

Amounts brought forward,	\$1,244 73	\$1,911 93
No. 546. Main street, E. side Highland avenue to Wakefield line, .	2,372 70	
No. 546. Main street, W. side Highland avenue to Wakefield line, .	2,030 82	
No. 551. Malvern street, S. side .		
Faxon to Meridian street, . .	94 05	
No. 751. Hose 3 (Highlands), .	39 60	
" 752. Highland avenue, W. side of Ashland street,	68 47	
No 471. First street, N. side Lebanon to Gooch streets. . . .	835 06	
No. 471. First street N. side, Gooch to Sewall streets,	641 02	
	<hr/>	7,326 45

INDIVIDUAL WALKS CONSTRUCTED.

Mrs. Statira Massey, Main street,	\$36 00	
Seymour Van Alstine, Renwick road,	29 75	
C. W. H. Frederick, E. Emerson street and Orient avenue,	167 56	
Edw. E. Babb, E. Emerson street and Orient avenue,	195 92	
Wm. Morss, Orient avenue, . .	54 64	
Chas. Fletcher, Orient avenue, . .	51 42	
	<hr/>	535 29

INDIVIDUAL WALKS APPLIED FOR AND NOT CONSTRUCTED ON ACCOUNT OF LACK OF FUNDS.

Walter Dean, 67 Sargent street, .	\$46 66	
C. L. Sprague, 116-118 Myrtle street,	56 00	
Charles M. Cox, Franklin street, .	116 00	
Oscar F. Frost, 10 Vine street, . .	46 00	
Levi S. Gould, 280 Main street, .	54 00	
Eliza H. Curtis, 384 Main street, .	41 00	
	<hr/>	
Amounts carried forward, . . .	\$395 66	\$9,773 67

Amounts brought forward, . . .	\$359 66	\$9,773 67
Chas. A. Young, 89 Walton park, . .	64 00	
Stephen R. Sircom, 81 Linden street, .	67 50	
John H. Gerrish, 25 Farwell avenue, .	84 00	
J. H. Pierce, 101-121 Green street, .	142 00	
Johnt H. Lawson, Franklin street, .	350 30	
N. R. Jones, 198 Upham street, . .	84 00	
	<hr/>	1,151 46
Total,		<hr/> \$10,925 13

The new work done the past season, or work for which one-half the cost can be assessed upon the abutters, is as follows:

CONTINUOUS WALKS CONSTRUCTED BY ORDER OF
THE BOARD OF ALDERMEN.

FERDINAND STREET.

C. H. Prescott.

80.25 lin. ft. straight curb	
at 40 cts.,	\$32 10
36.51 lin. ft. curved curb	
at 60 cts.,	21 91
Setting 116.76 lin. ft. curb	
at 20 cts.,	23 35
61.97 sq. yds. concrete at	
35 cts.,	21 69
28.2 sq. yds. concrete, at	
15 cts.,	4 23
	<hr/>
	\$103 28
Credit by value of existing	
walk,	13 99
	<hr/>
Amount carried forward,	\$89 29

Amount brought forward, . . .		\$89 29
Harry Bickford.		
92.4 lin. ft. curved curb at		
60 cts.,	\$55 44	
62.11 sq. yds. concrete at		
35 cts.,	21 74	
Setting 92.4 lin. ft. curb		
at 20 cts.,	18 48	
	<hr/>	95 66
Abel F. Renton.		
41.23 lin. ft. straight curb		
at 40 cts.,	\$16 49	
36.37 lin. ft. curved curb		
at 60 cts.,	21 82	
Setting 77.60 lin. ft. curb		
at 20 cts.,	15 52	
52.37 sq. yds. concrete at		
35 cts., ,	18 33	
	<hr/>	72 16
A. E. Pingree.		
71.68 lin. ft. straight curb		
at 40 cts.,	28 67	
46.27 sq. yds. concrete at		
35 cts.,	16 19	
Setting 71.68 lin. ft. curb		
at 20 cts.,	14 34	
	<hr/>	59 20
Joseph Moore.		
56.24 lin. ft. straight curb		
at 40 cts.,	\$22 50	
40.48 sq. yds. concrete at		
35 cts.,	14 17	
Setting 56.24 lin. ft. curb		
at 20 cts.,	11 25	
	<hr/>	47 92
Amount carried forward, . . .		\$364 23

Amount brought forward, . . .		\$364 23
Minnie M. Carrie.		
40.85 lin. ft. straight curb		
at 40 cts.,	\$16 34	
57.91 lin. ft. curved curb		
at 60 cts.,	34 75	
Setting 98.76 ft. curb at		
20 cts.,	19 75	
64.83 sq. yds. concrete at		
35 cts.,	22 69	
	<hr/>	93 53
Geo. H. Towle.		
33.65 lin. ft. straight curb		
at 40 cts.,	\$13 46	
57.91 lin. ft. curved curb		
at 60 cts.,	34 75	
Setting 91.56 lin. ft. curb		
at 20 cts.,	18 31	
64.23 sq. yds. concrete at		
35 cts.,	22 48	
	<hr/>	89 00
Willard Welch.		
90 lin. ft. straight curb at		
40 cts.,	\$36 00	
64 lin. ft. curved curb at		
60 cts.,	3 84	
Setting 96.4 lin. ft. curb at		
20 cts.,	19 28	
69.21 sq. yds. concrete at		
35 cts.,	24 22	
	<hr/>	83 34
Total,		<hr/>
		\$630 10
Geo. E. Fowle. (Not assessable.)		
1.71 sq. yds. concrete at		
35 cts.,	60	
181 sq. yds. concrete at		
15 cts.,	27	
	<hr/>	87
Amounts carried forward,	<hr/>	<hr/>
	\$0 87	\$630 10

Amounts brought forward, \$0 87 \$630 10

MAIN STREET.*

J. F. Fernald.

66.22 lin. ft. straight curb		
at 40 cts.,	\$26 49	
8.45 lin. ft. curved curb at		
60 cts.,	5 07	
Setting 74.67 lin. ft. curb		
at 20 cts.,	14 93	
	<hr/>	\$46 49

Mrs. E. J. Sawyer.

49.10 lin. ft. straight curb		
at 40 cts.,	\$19 64	
3 lin. ft. curved curb at		
60 cts.,	1 80	
Setting 52.10 lin. ft. curb		
at 20 cts.,	10 42	
	<hr/>	31 86

Mrs. G. L. Nyman.

42.24 lin. ft. straight curb		
at 40 cts.,	\$16 90	
3 lin. ft. curved curb at		
60 cts.,	1 80	
Setting 45.24 lin. ft. curb		
at 20 cts.,	9 05	
	<hr/>	27 75

M. G. Cochrane.

36.31 lin. ft. straight curb		
at 40 cts.,	\$14 52	
10.60 lin. ft. curved curb		
at 60 cts.,	6 36	
Setting 46.91 lin. ft. curb		
at 20 cts.,	9 38	
	<hr/>	30 26

Amounts carried forward,	\$137 53	\$630 10
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* Unfinished.

Amounts brought forward,	\$136 36	\$630 10
Alice I. Calkins.		
79.74 lin. ft. straight curb		
at 40 cts., . . .	\$31 90	
10.65 lin. ft. curved curb		
at 60 cts., . . .	6 39	
Setting 90.39 lin. ft. curb		
at 20 cts., . . .	18 08	
	<hr/>	56 37
Mrs. A. E. Burke.		
60 lin. ft. straight curb at		
40 cts., . . .	\$24 00	
Setting same at 20 cts., .	12 00	
	<hr/>	36 00
Warren Hapgood.		
120 lin. ft. straight curb		
at 40 cts., . . .	\$48 00	
Setting same at 20 cts., ,	24 00	
	<hr/>	72 00
C. A. Kennedy estate.		
60 lin. ft. straight curb		
at 40 cts., . . .	\$24 00	
Setting same at 20 cts., .	12 00	
	<hr/>	36 00
Matthew I. Lans.		
143.38 lin. ft. straight curb		
at 40 cts., . . .	\$57 35	
Setting same at 20 cts., .	28 68	
	<hr/>	86 03
	<hr/>	422 76

LAKE AVENUE.*

City of Melrose.

152 lin. ft. straight curb	
at 40 cts., . . .	\$60 80

 Amounts carried forward \$60 80

 \$1,052 86

* Unfinished.

Amounts brought forward, \$60 80	\$1,052 86
12.5 lin. ft. curved curb	
at 60 cts. 7 50	
Setting 164.5 lin. ft. curb	
and grading, 43 20	
<hr/>	111 50

CHESTER STREET.*

Sarah H. Sprague.

60.67 lin. ft. straight curb	
at 40 cts. \$24 27	
3 lin. ft. curved curb at	
60 cts., 1 80	
Setting 63.67 lin. ft. curb	
at 14 cts., 8 90	
<hr/>	\$34 97

Mrs. E. E. Dickinson.

50 lin. ft. straight curb at	
40 cts., \$20 00	
Setting same at 14 cts., . 7 00	
<hr/>	27 00

F. B. Hayden.

50 lin. ft. straight curb at	
40 cts., \$20 00	
Setting same at 14 cts., . 7 00	
<hr/>	27 00

Andover Savings Bank.

91.45 lin. ft. straight curb	
at 40 cts., \$36 58	
3 lin. ft. curved curb at	
60 cts., 1 80	
Setting 94.45 lin. ft. curb at	
14 cts., 13 18	
<hr/>	51 56
<hr/>	140 53

Amount carried forward, . . . \$1,304 89

* Unfinished.

Amount brought forward, . . . \$1,304 89

INDIVIDUAL WALKS CONSTRUCTED.

EAST EMERSON STREET AND ORIENT AVENUE.

C. W. H. Frederick.

264 lin. ft. straight curb		
at 40 cts.,	\$105 60	
11.46 lin. ft. curved curb		
at 60 cts.,	6 88	
Setting 275.46 lin. ft. curb		
at 20 cts.,	55 08	
	<hr/>	167 56

Edw. Babb.

298.8 lin. ft. straight curb		
at 40 cts.,	\$119 52	
20.8 lin. ft. curved curb at		
60 cts.,	12 48	
Setting 319.6 lin. ft. curb		
at 20 cts.,	63 92	
	<hr/>	195 92
	<hr/>	<hr/>
		363 48

ORIENT AVENUE.

Wm. Morss.

22.52 sq. yds. concrete at		
35 cts.,	\$7 88	
73.75 lin. ft. straight curb		
at 40 cts.	29 50	
3.14 lin. ft. curved curb at		
60 cts.,	1 88	
Setting 76.89 lin. ft. curb,		
at 20 cts.,	15 38	
	<hr/>	\$54 64
	<hr/>	<hr/>
Amounts carried forward,	\$54 64	\$1,668 37

Amounts brought forward,	\$54 64	\$1,668 37
Chas. Fletcher.		
19.5 sq. yds. concrete at		
35 cts.,	\$6 82	
70.15 lin. ft. straight curb		
at 40 cts.,	28 06	
3.14 lin. ft. curved curb at		
60 cts.,	1 88	
Setting 73.29 lin. ft. curb.		
at 20 cts.	14 66	
	<u>51 42</u>	
		106 06
Mrs. Statira Massey, Main street.		
60 lin. ft. straight curb at		
40 cts.,	\$24 00	
Setting same at 20 cts., .	12 00	
27 sq. yds. concrete (not		
charged) at 35 cts.,	—	36 00
Seymour Van Alstine, Renwick road.		
78.7 lin. ft. straight curb at		
40 cts.,	\$31 48	
6.28 lin. ft. curved curb at		
60 cts.,	3 77	
Setting 84.98 lin. ft. curb		
at 20 cts.	17 00	
	<u>\$52 25</u>	
Credit by 64.35 sq. yds.		
concrete at 35 cts.	22 50	
	<u>29 75</u>	
Total,		\$1,840 18

COST CLASSIFIED.

NEW WORK.

Cost 2706.93 ft. edgestone,	\$1,160 09
" labor and teams,	536 14
" concrete,	189 89
	<u>—</u>
Amount carried forward,	\$1,886 12

Amount brought forward, . . . \$1,886 12

MAINTENANCE.

Cost resetting old lines curb, 539.82 ft.,	\$33 87	
“ graveling walks not completed, Main and Chester streets and Lake avenue,	81 25	
Cost concrete repair,	215 64	
“ 11 corners, granite, . \$167 35		
“ “ “ labor, . 30 92		
	<hr/>	198 27
“ advertising, printing, etc.,	18 45	
“ inspection,	68 75	
Balance stock on hand,	85 46	
	<hr/>	701 69
Total,		\$2,587 81

NOTE: The difference, \$45.94, between the amount expended as shown above and the cost of new work as given on the preceding page represents the cost of work done at various places, one half of which could not be charged to the abutter.

RECEIPTS AND EXPENDITURES.

Appropriation,	\$2,500 00	
Collections paid treasurer,	267 64	
	<hr/>	\$2,767 64

EXPENDED.

Melrose Journal, advertising	\$2 75	
Dunton & Potter, books and printing,	10 00	
Dunton & Potter, advertising,	4 00	
F. W. Hunt, sundries and car fares,	1 70	
F. E. Newhall, granite,	1,371 10	
Robert Philpot, concreting,	415 53	
Highway div., teams and labor,	94 00	
Labor as per pay rolls,	619 98	
Inspection,	68 75	
Unexpended balance,	179 83	
	<hr/>	\$2,767 64

LIGHTING.

On January 1, 1900, the city was lighted by contract with the Malden Electric Co., the number of lights being 478 incandescent of 25 candle power, and 50 arc lights of 1,200 candle power.

During the year these were increased by order of the board of aldermen, so that at present there are 523 incandescent and 52 arc lights which are burned each dark night from twilight to 12.15 o'clock, a. m., and by special order of the board of aldermen all arc lights are burned in the morning from 5 o'clock until daylight of each dark night during the months of November, December, January and February.

The cost of these lights is fixed by contract authorized by the town and executed in its behalf by the board of selectmen, August 2, 1898, and runs for a term of 3 years from that date, except the cost of burning the arc lights in the morning which is at a price agreed upon by the engineer and superintendent of public works and the treasurer of the Malden Electric Co. and approved by the mayor.

The prices are, for each arc light from twilight to 12.15 o'clock, \$73.68; for each incandescent light from twilight to 12.15 o'clock, \$15.50 and for burning the lights in the morning \$5 each for the four months, or \$1.25 each per month.

This contract expires August 2, of this year and will either have to be renewed, continued, or a new contract made with this or some other company. I would recommend that the latter be done for several reasons:

1st. It is hoped that more favorable prices may be obtained.

2nd. It is desirable that some clause be inserted whereby the city may receive credit for lights reported out.

3rd. That some better understanding may be had in regard to the general quality of their poles, wires, etc., and especially that some arrangement may be had in regard to the insulation and ties where trees are interfered with.

Some steps should be taken by the board of aldermen toward passing an ordinance in regard to wiring, not especi-

ally electric light, but all wiring. In many instances streets have two or even three lines of poles of all sizes, kinds and description; this, so far as consistent should be regulated by ordinance; all poles should be square, hard pine (or iron in case of street railroads); they should be set to conform with the lines of the streets, and of proper height and size.

The expense of lighting for the 13 months and the condition of the appropriation Jan. 31, 1901, is as follows:

Amount appropriated,	. . . .	\$11,500 00
January bills allowed,	. . . .	923 12
		<hr/>
		\$12,423 12

EXPENDED.

Amount paid Malden Electric Co.		
for 50 arc and 477 incandes-		
scent lights, 13 months as per		
contract,	. . . . .	\$12,000 56
For extra lights added,	. . . .	195 77
For running 52 arc lights from 5		
o'clock a. m. to daylight, from		
Nov. 1, to Feb. 1,	. . . . .	184 17
		<hr/>
		12,380 50
Labor as per pay roll, locating		
poles,	. . . . .	17 00
		<hr/>
		12,397 50
Unexpended balance,	. . . . .	\$25 62

STREET WATERING.

On May 14, 1900, the board of aldermen passed ordinance No. 244, chapter 24 of the city ordinance, entitled "Sprinkling streets and assessment of betterments," whereby the engineer and superintendent of public works is directed to sprinkle all streets designated by the board of aldermen, and to assess upon the abutters three cents per linear foot

for all occupied and one cent per linear foot for all vacant land ; and also authorizing and directing the city treasurer to credit all moneys collected as above provided to the street sprinkling fund, and to pay all charges for sprinkling from said fund, and in the event that a deficiency should occur, the treasurer is further authorized and directed to borrow in anticipation of said assessment or tax, a sum sufficient to meet the payment of all bills contracted by or on account of said sprinkling.

On April 9, 1900, the board of aldermen passed order No. 248, authorizing the sprinkling of the following streets and ways :

	Linear ft.
Ashland street, from Melrose street to Highland avenue,	1,241.02
Batchelder " " Bellevue ave. " Porter street,	869.07
Bellevue avenue, " Linden street " Upham "	2,442.32
Berwick street, " Foster " " Wyoming avenue,	1,230.04
Botolph " " Franklin " " West Hill "	373.41
Cottage " " Foster " " Wyoming "	1,140.03
Emerson " " Vinton " " Bellevue "	3,552.95
Essex " " Emerson " " Main street,	1,896.67
Florence " " Foster " " Russell "	2,132.33
Foster " " Vinton " " Lebanon street,	3,315.32
Franklin " " Main " " Stoneham line,	4,846.67
Green " Main at Franklin " Porter and Lebanon, . .	2,834.47
Greenwood street from Franklin street to Wakefield line,	1,069.60
Grove street from Berwick street to Sixth street,	4,697.27
Herbert " " Berwick " " Myrtle "	378.61
Highland avenue " Sargent " " Chipman avenue,	1,341.82
Howard street " Green " " M. G. Cochrane's, . . .	1,243.49
Hurd " " Trenton " " Railroad,	1,060.04
Hillside avenue, " Bellevue avenue to angle in street,	336.38
Lake " " Emerson street " Tremont "	1,224.19
Lebanon street " Porter " " Beech avenue,	3,458.85
Main " " Greenwood line " Malden line,	11,993.62
Melrose " " Vinton street " Belmont street,	654.20
Melrose place " Melrose street,	284.18
North avenue " Walton park to Stoneham line,	693.00
Orris street " Vinton street to Walton park,	1,089.73
Orient avenue " Porter street to Emerson street,	1,015.08
Emerson street " Vinton " " Poplar "	811.84
Chipman avenue " Franklin " " Highland avenue	195.06

	Linear ft.
Pleasant street from Wyoming avenue to Ashmont street,	1,360.78
Tremont street " Emerson street " J. P. Deering's,	566.37
Tremont. " " Franklin " " Melrose street,	848.36
Trenton " " Foster " " Washington street, ..	2,560.00
Upham " " Main " " Sewall street,	2,510.63
Vinton " " Franklin " " Foster "	4,880.04
Wyoming avenue from Summer street " Stoneham line,	4,366.87
Walton park from Franklin street to Orris street,	831.96
Youle street " Vinton street " Leeds "	891.72
Myrtle " " Grove " " Emerson street,	2,226.88
Warren " " Franklin street " Orris street,	614.38
	<hr/>
	79,079.25

During the year certain others were added as follows :

MAY 1, 1900.

	Linear ft.	Linear ft.
Wyoming avenue from Summer street to F. L. Washburn's driveway,	206.65	
Greenwood street from Melrose line to Woodland avenue,	77.14	

MAY 18, 1900.

Malvern street from Potter street to Meridian street,	1,324.50
Meridian " " Grove " " Beech avenue,	736.63

JUNE 1, 1900.

Adams street from Wyoming avenue to Russell street,	827.21
Lynde " " Main street to Walnut street,	786.74

JUNE 7, 1900.

Lynde street from Walnut street to Summer street,	447.30
E. Foster street from Lebanon street to Larrabee " "	1,468.48
Third street from Lebanon street to Gooch street, . .	663.99
Emerson " " Bellevue avenue " Orient avenue, ..	408.51

JUNE 28, 1900.

Rowe street from Emerson street to Upham street, ..	562.97
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JULY 5, 1900.

Highland avenue from Sargent street to Cliff street,	608.98
	<hr/>
	8,119.10
	<hr/>
	87,198.35

Watering on the following was ordered discontinued:

JUNE 1, 1900.

Highland avenue, (entire length,)	1,541.82
Total,	<hr/>
	85,856.53

The total length of streets sprinkled, 85,856.53 linear feet, or about 16.26 miles, on the line of which were 1,374 lots, aggregates a total frontage of 161,081 linear feet, of which 23,258 linear feet were assessed as vacant and 137,823 linear feet as occupied land.

On April 7, 1900, advertisements were inserted in the local papers, calling for bids for street watering. Eight bids were received and opened with the result as shown below:

Robert Philpot,	\$41 00	per 1,000 ft.	Total	\$3,134 45
Francis W. Hoffman,	45 40	" " "	"	3,470 83
Norris & Co.,	46 01	" " "	"	3,517 46
Christian L. Hoffman,	47 20	" " "	"	3,608 44
Frank A. Pratt,	52 50	" " "	"	4,013 63
Anthony Lux, Jr.,	53 50	" " "	"	4,090 08
Philip S. Keating,	53 71	" " "	"	4,106 13
Joseph Gibbons,	55 50	" " "	"	4,242 98

The bid of Robert Philpot was the lowest and a contract was prepared whereby he was to water all streets designated by the engineer and superintendent of public works for the prices named in his bid and give a bond of \$1,000.00, with the National Surety Co. of New York as sureties, which was signed April 24th, 1900. By this contract payments were made monthly, divided as follows: For each 1000 ft. of street watered in May \$6.00, in June \$7.00, in July \$7.00, in August \$7.00, in September \$6.00, in October \$6.00, in November \$2.00, in December \$0.00. By this arrangement there was no dispute as to the relative value of the work each month, nor how much should be allowed for streets added or discontinued during the season.

Prior to the passage of this ordinance, May 14, 1900, there was no provision whatever for watering any streets; but the condition of the weather was such in the late winter and early spring that it was imperative that something be done in the business parts of the city to keep the dust down, and certain portions of Main, Franklin, Essex and Upham streets were watered and the expense (\$234.13) paid out of the highway appropriation, and was later refunded.

The amount of the assessments levied in accordance with

the provisions of Chap. 24, city ordinances, is not sufficient to pay the whole cost of watering. A deficiency of \$39.50 now exists, which will continue to increase each year unless some provision is made to obtain money from other sources. This account at present, provided all assessments levied to date were collected, stands:

Assessments levied in 1900, . . .	\$4,188 98	
Less abatements made by assessors:		
On public property, . . .	\$94 59	
On vacant instead of occu-		
pied land, . . .	120 30	
For other causes, . . .	48 17	
	<hr/>	263 06
Net assessment for 1900, . . .	3,925 92	
Amount of 1899 assessments uncol-		
lected Jan. 1, 1900, . . .	1,552 97	
	<hr/>	
Total,		\$5,478 89
Amount of deficiency, Jan. 1, 1900, .	\$1,183 79	
" expended, 1900, . . .	4,334 60	
	<hr/>	
Total expenditures to meet to date,		5,518 39
		<hr/>
Debit balance,		\$39 50

From the foregoing it appears that the length of the streets and ways watered was 85,856.53 linear feet, or about 16.26 miles; the total expense \$4,334.60, or about \$266.58 per mile.*

No town report was printed in 1899 so no comparison of the cost can be made.

In previous years the horses of the Central fire station and the one at the Highlands were used for street watering near the two fire stations. The reasons for abandoning this were:

First. The territory watered by these horses was the two business centres, the Highlands and the Centre. When an alarm of fire occurred there was no sprinkling done by them

* NOTE: This cost covers all repairs to carts, including painting, also the erection of twelve new stand-pipes, which alone cost \$339.49.

the remainder of that day, which was very unsatisfactory to the store-keepers and others.

Second. The distance from the station that it was considered safe to send these teams was so small that the greatest amount of work could not be obtained from these carts.

Third. The fire department is entirely separate from the public works department and the engineer and superintendent of public works has no control whatever over either the horses or the drivers.

The city owns seven double and one single street watering carts; one double cart was reserved for use in the highway department, and with the remaining carts it is impossible under certain conditions to keep the dust down. Last summer at three different times we had exceedingly hot weather and a very dry, hot wind; with this combination and the limited number of carts it was impossible to keep the streets free from dust.

I wish to call attention to the fact that oftentimes store-keepers, residents and people travelling upon a street may be greatly annoyed with dust when the street itself is well watered; the dust may come from the sidewalks or from some adjoining street not watered.

Owing to the large territory watered and the limited number of carts, it became necessary to erect new stand-pipes, to locate which caused no end of trouble to the department. There are many things to be considered in selecting a location, namely: it should be convenient to the territory watered; on the line of some paved or concreted gutter, or near some catch-basin or local stream, (that the waste water may not create a nuisance); on some street whose grade is not too steep and which is wide enough to readily turn the cart; it must be where it will not annoy any one. No such locations could be found and they were placed where they would be the most convenient for use and the least obnoxious.

A detail of the expenditures charged to street watering is as follows:

For sprinkling streets as per contract with Robert Philpot, . . .	\$3,469 54	
For extra work, R. Philpot, cemetery,*	2 50	
“ labor as per pay rolls, . . .	90 14	
“ “ and teams, highway div., . .	234 13	
“ “ “ stock on stand-pipes, water division, . . .	339 49	
For painting watering carts, . . .	105 00	
“ repairs “ “ . . .	50 30	
“ making out schedules and abstracts, . . .	27 75	
“ books and printing schedules, . . .	12 50	
“ advertising,	3 25	
		\$4,334 60

*Watering Linwood avenue and Sylvan street on Decoration Day.

STREET NUMBERING.

Section 1 of Chapter 22 of the city ordinances provides that the numbering of all buildings shall be done by or under the direction of the engineer and superintendent of public works.

Section 2 of said ordinance reads as follows:

The street doors of all buildings shall be numbered with suitable metal or painted numbers and shall be assigned by the engineer and the superintendent of public works, who shall at least once a year cause to be examined the numbers on all buildings throughout the city.

The provision of this ordinance has been complied with and numbers have been assigned and put on all doors, with the exception of certain streets and portions of streets which require some or all of the numbers changed. Believing that general change in the numbering of any street or way was not within the scope of the powers conferred upon the engineer and superintendent of public works by the ordinance above quoted, on Dec. 12, 1900, a communication accompanied by plans of Berwick street, Brunswick park, Franklin street, Malvern street, Melrose place, Pleasant

street, Winthrop place and York terrace, was sent to the board of aldermen, asking their instructions in the premises, and is now pending their action.

It was afterwards found that the board of selectmen had considered Malvern street and caused a plan to be made showing the new numbers, which was considered sufficient authority to change them.

Many doors were not numbered, while some of those on others were wrong. They have all, with the exceptions above enumerated been re-arranged and now conform to the plans adopted by the town.

The entire city was canvassed and 625 doors numbered, which took 1,406 figures, costing \$109.35, which was paid from the appropriation for contingencies and in detail is as follows:

Figures, Allen Brothers,	\$76 50	
Brock Brothers,	60	
D. H. Woodward, box,	3 00	
Express on numbers,	25	
Extra labor, carpenter and team, .	29 00	
	<hr/>	\$109 35

PARKS.

The tendency of the period is towards park and ornamental spots, and Melrose is by no means lacking in opportunities or natural advantages ; but before beautifying artificially, it would seem wise to remove some of the blotches or eye-sores that exist in the centre of our settlement, principle among these are Dix's pond, the ice-houses on Main street, the freight yard at the Melrose station, and the shabby, tumble-down buildings along the banks of Ell pond brook.

Melrose is purely a residential city, and to encourage settlement must be attractive. Steps should be taken to cause the Boston & Maine railroad to remove their freight house and yard from the Melrose station, build a new

station here and also one at the Highlands, and it would seem policy for the city to join with the officials of the railroad to make such improvements at or around each of the three stations as would make them attractive.

The low land in the vicinity of Dix's pond can be secured at a nominal cost, could be filled and made suitable for a play-ground, park or some public building, or even residences.

Plans and estimates for the grading and improvement of the Melrose Common have been made and submitted to the board of aldermen, by which the east end is to be used as a play ground and ball park, while the west end is to be ornamented by a pond and fountain, walks, shrubs, flower-beds and trees.

Many are enthusiastic over the proposed boulevard running east and west, connecting Middlesex Fells with Lynd Woods. Would it not be preferable to have one running more nearly north and south, connecting Melrose with the park system of Malden, Medford, Winchester, Somerville, Cambridge and the Back Bay Fenns, bringing us in close contact with the thickly settled suburbs of Boston, and even Boston itself? This could, at the same time, be made to pass very nearly through the centre of the city by following along the banks of the main brook to Malden, there connecting with the present system.

CARE OF PARKS.

On all of the small public squares of the city the grass has been kept cut and a heavy coating of dressing put on this fall. The dressing was donated by Mr. A. Wilbur Lynde, chief of the fire department. The square at the corner of Howard and Green streets was grubbed, all roots removed, loamed over, fertilized and seeded.

The basin of the fountain in the square at the junction of Howard and Green streets has been repaired; this fountain and the one at the junction of Elm and Avon streets has been cleaned and painted.

The banks along the edge of the roads in Sewall Woods road were sloped and seeded; dead trees were removed

under the direction of Mr. W. N. Folsom, who also assisted in looking after a man raking up loose stones and furnished a team for this purpose free gratis.

The weeds were cut and trees trimmed on the Melrose common. The grounds around the city hall were fertilized and the bare places under the trees and next to the buildings resodded, and the vase filled with flowering plants.

The seats at the old ball-ground, Tremont street, were examined and condemned. Although this property is not owned by the city, in the past it has been hired for the storage of water pipe and the city allowed it to be used for outdoor sports. All pipe and material is now removed and another year the city will have in it no interest whatever.

The expenses of this division were as follows:

Amount of appropriation,	\$400 00
------------------------------------	----------

EXPENDED.

F. L. Washburn, filing plans of Ell pond park,	\$2 25
D. Bushong, labor cleaning Sewalls Woods park,	40 00
Shady Hill Nursery, plants for Main and Lynde streets,	7 98
George Dew, paint, bronzing and varnishing vase and fountains,	10 00
Lewis C. Hoyt, signs for Sewall Woods park,	29 00
Wilbur Lynde, loam and labor,	153 44
Labor as per pay roll,	21 50
Brock Brothers, repairing fountain,	1 60
H. J. Perry, paint for fountain,	3 23
J. P. Deering, lumber,	72
W. A. Goodno, boxing fountains for winter,	6 00
Water division, repairs,	3 68
Sewer " cement,	2 32
	———— 281 72
Unexpended balance,	\$118 28

ENGINEERING DIVISION.

This division has been in charge of Mr. W. F. Hunt, who prior to his coming to Melrose had nine years' experience in the engineer's office of the town of Brookline; the drafting has been in charge of Mr. A. J. Waghorn, who was formerly employed in the sewer department; the other assistants have been George Maguire, Charles F. Woodward, P. R. Bowers, John H. Larrabee and Leonard F. Leighton.

It is a new departure for the city, for although in previous years there has been an office for this kind of work, it was maintained exclusively by the sewer department, and most of the surveys made and data collected were such as especially pertained to the sewer work, and although of great value to the other branches of the department, required, in many cases, additional surveys and re-arrangement to be of specific use.

All engineering work may be divided into two parts, viz: 1st, that which it is necessary to do to lay out work for construction; 2nd, certain other work to properly compile and preserve a record of what was done, both for the purpose of making plans of the structures themselves, and for the further purpose of showing why certain methods or conditions were adopted. The value of the work pertaining to keeping such records, plans, profiles, notes, etc., will not be appreciated nor will its merits be in evidence at the present time, but if continued, will in the future result in great benefit to the city. As examples of a lack of this work in the past, attention is called to the condition of some of our public improvements where work has been done at different times, places, and perhaps by different persons, each necessarily without proper regard to what had previously been done by others, for no record had been kept, and if kept was not available, no one knew where it was, and if it existed was the property of some private engineer. In all work done the past season great care has been taken to preserve these records in a concise and systematic manner.

In addition to doing the routine work the coming season it is desired to make a special study of the distribution of the water system with a view to improvement when cement pipes are renewed; make a set of plans, on scale of forty feet to the inch, on which to show all main pipes, gates, hydrants, stand-pipes, service boxes and service pipes; revise existing location sketches of services; take levels along all water courses; prepare in tabulated form all surface drainage estimates, that the cost of any particular drain may be readily obtained; locate street lines and renew old stakes at street corners and angles; extend the co-ordinate survey for the benefit of the assessors' department; make thirty-eight new numbering plans; locate all electric light and telephone poles and to prepare a card index of all plans, notes and calculation books.

I would recommend that an appropriation be made for the placing of street bounds, as the existing temporary stakes are fast being lost and destroyed.

A summary of all work done, its cost, together with a list of property in this division follows :

STREET LINES AND GRADES FOR CONSTRUCTION.

			Feet.
Bellevue avenue, from	Upham street	to Porter street,.....	1,350
Chester street,	Trenton "	" Florence "	220
Emerson " east,	Bellevue avenue,	Fletcher "	820
Essex " "	Myrtle street	" Emerson "	1,310
Ferdinand " "	Franklin " "	" 716 ft. north	716
Fletcher " "	Upham " "	" Emerson "	330
Franklin " "	corner of Belmont street,	.....	50
Green " "	Linden street	" Rowe street,.....	750
Grove " "	Lebanon " "	" Meridian "	1,020
Highland avenue	" Chipman avenue	" Sargent "	1,300
Lebanon street	" Upham street south	to angle,	300
Lake avenue	" Emerson " north,	.....	160
Main street	" Green " to Wakefield line,	.....	2,200
" " "	Melrose " "	" Green street,.....	1,300
" " "	Foster " "	" Mt. Vernon "	1,700
Morgan avenue	" Main " "	" Spring "	370
Park street from east end,	.....	.....	400
Richardson road,	.....	.....	100
Ravine road, from	Wyoming avenue	to Stoneham line,.....	500

			Feet.
Sargent street,	from	Franklin street to Highland avenue,.....	500
School	"	Porter " " low point,.....	800
Spear	"	Park " south,	150
Tremont	"	corner of Union street,.....	50
Upham	"	Bellevue avenue east to low point,.....	1,500
Walton park,		Near Natalie avenue,	250
Wyoming avenue, from		Cleveland street to Stoneham line,.....	1,630
Washington street,	"	Lynde avenue " Stoneham line,.....	1,400
Total,.....			21,176

STREET LINES SURVEYED FOR RECORD.

			Feet.
Emerson street, from		Bellevue avenue to Fletcher street,.....	820
Essex	"	Myrtle street " Main "	550
Forest	"	Lebanon " " Naples road,	1,240
First	"	Eleventh " " Waverly avenue,	1,020
Hopkins	"	Lebanon " " Forest street,	480
Highland avenue, junction of	Cliff	"	100
Orient avenue, from	Emerson	" " Porter "	960
Sylvan	"	Main " " Lebanon "	2,930
Porter	"	Bellevue avenue to Saugus brook,	3,100
Total,.....			11,200

STREETS PROFILED FOR RECORD GRADE PLANS.

			Feet.
Bellevue avenue, from	Porter street to	Upham street,.....	1,350
Chester street,	"	Trenton " " Florence "	220
Crescent avenue,	"	Washington " " Frances "	570
Dell	"	Foster " " Upham "	602
Emerson street,	"	Bellevue avenue " Fletcher "	820
Farwell avenue,	"	Green street, " Haskell "	450
Forest street,	"	Lebanon " " Naples road,.....	1,240
Fletcher	"	Upham " " Porter street,.....	1,350
First	"	Eleventh " " Waverley avenue,....	1,020
Goss avenue,	"	Grove " " Staples street,.....	750
Hopkins street,	"	Lebanon " " Forest "	480
Lebanon	"	Upham " " Emerson "	582
Main	"	Wyoming avenue to gasometer,.....	200
"	"	Franklin street " Wakefield line,....	2,500
Orient avenue,	"	Emerson " north,.....	300
Rockland	"	South avenue to Harrison street,.....	700
Richardson road,	"	Alpine street " Ashland "	577
Ravine	"	Wyoming avenue to Stoneham,.....	500

				Feet.
Upham street, from	Bellevue avenue to	School street,.....		1,800
Vine " "	Myrtle street, " Essex "			643
West Linden street, " Green " " Main "				473
Washington " " Lynde avenue, " Stoneham,.....				900
Wyoming avenue, " Cleaveland street, " "				1,630

Total,.....19,657

NOTE.—Plans and profiles of all of the above streets have been made and are on file.

STREET LINE AND GRADE GIVEN TO ABUTTERS.

	Feet.
Adams street, for trees,.....	50
Crescent avenue, for grading lawns,.....	500
Cass street, for grading lawns and setting curb,.....	260
Cleaveland street, for trees,.....	116
Cliff street, for retaining walls,.....	40
Dell avenue, for moving buildings,.....	125
Dix pond, " " "	100
Franklin street, for fences,.....	236
Green street, cor. Franklin, for architect's plan,.....	130
Green street, for grading lawn,.....	50
Henry avenue, for retaining wall,.....	60
Highland street, " " "	145
Lynde street, for building fence,.....	139
Maple street, for trees,.....	148
Main street, for retaining wall,.....	175
Parker street, for grading lawn,.....	120
Porter street, locating angle for surveyor,.....	—
Swains Pond avenue, for trees,.....	100
Franklin street, for grading lawn,.....	132
Upham street, " " "	200

CURBING PLANS MADE, LENGTHS COMPUTED, LINES AND GRADES GIVEN AND WORK INSPECTED.

	Ft. straight.	Ft. curved.
Main street, Green street to Highland avenue,	656.99	35.70
Ferdinand street,	506.30	195.10
Richardson road,	78.70	6.00
Franklin street at Melrose Highlands station,.....	41.35	8.60
S. E. corner Emerson and Essex streets,	39.50	13.80
N. E. " " " Orient avenue,.....	298.77	20.80
Chester street, north side,	252.12	6.00
Lake avenue, west side,.....	152.05	12.50

	Ft. straight.	Ft. curved.
N. W. corner Emerson street and Orient avenue,	263.90	11.46
Main street W. side S. of Grove street,	60.00	
N. E. corner Bellevue avenue and Upham street,	4.00	12.72
N. W. " " " " " "	7.30	11.50
N. E. " " " " Emerson " "	20.20	13.20
S. W. " " " " " " " "	8.00	13.10
S. W. " " " " Hillside avenue,	12.00	3.20
N. W. " " " " Emerson street,	13.20	4.00
S. E. " " " " " " " "	8.00	13.18
Orient avenue east side,	143.90	6.00
Totals,	2,059.98	191.76

CONCRETE MEASURED.

For highway division,	193 sq. yds.
" sewer "	202 " "
" water "	5 " "
" sidewalk "	1,390 " "
Total,	1,790 sq. yds.

STREET WATERING ASSESSMENTS.

Number of separate lots figured,	1,374.
" " streets scheduled,	45.
Linear feet of highway sprinkled,	85.293
" " " frontage, vacant,	23.258
" " " " occupied,	137.823

NOTE: Above information prepared for the assessing department.

SPECIAL SURVEYS.

School department:

Survey of lot corner of Grove, Myrtle and Faulkner place.

Survey of lot corner of Lynde, Lebanon and Potter streets.

Cemetery department:

Estimate of the cost and staking out the line of 800 feet of water pipe.

Survey and plan for new lots.

Survey of lots along Sylvan street.

Public works department:

Survey of city property in vicinity of Dix pond.

SURFACE DRAINAGE.

Areas surveyed and contoured to 5 ft. intervals.

In Stoneham, 249 acres.

In Wakefield, 305 "

In Melrose, entire area inspected and watershed lines determined by field sketches on existing plans.

Old catch-basins and culverts inspected and measured, 279

Inspection pits to existing drains, location and levels taken, 29

Studies and designs for new culverts, conduits, etc., 17

Number of streets and ways on which detailed estimates were made up for new system, . 113

Number of maps, plans, etc., made and compiled, 188

viz:

1 tracing wall map.

10 tracings, imperial size.

6 " letter "

8 plans on mounted paper, imperial size.

4 " " " " double elephant size.

130 blue prints.

1 bond paper map.

1 lithograph.

27 tables of estimates.

MISCELLANEOUS.

Maps and plans made in 1900, additional to preceding lists:

Topographical survey and plan of Melrose common. .

New wall map of Melrose on mounted paper, scale 1-3000 or 250' = 1".

Wall map of Melrose water works, mounted black print, scale 1-3000

Wall map of electric lighting circuits of Melrose—mounted black print, scale 1-3000, showing 52 arc lights and 522 incandescent lights.

Deeds looked up,	105
Sewer accounts divided,	16
Private sewers plotted,	261
Plans and profiles for sidewalks,	18
Street construction,	16
" acceptance,	10
Detail estimates and tables,	85
Data furnished:	

To county engineer of Middlesex county: Copies of existing plans of the county roads in Melrose.

To Metropolitan sewerage commission: Copies of all the assessment plans and profiles along the route of the new Metropolitan sewer for Wakefield. Bench levels, and street lines for the same.

The expenses for the 13 months are as given below:

Appropriation,	\$3,000 00
Special appropriation for surface drainage,	1,000 00
	————— \$4,000 00

EXPENDED.

Salary, W. F. Hunt, 11.5 mos.,	\$924 38
A. J. Waghorn, 7.25 "	516 00
George Maguire, 4.00 "	230 00
Chas. F. Woodward, 10.5 "	614 69
P. R. Bowers, 1.5 "	100 50
John H. Larrabee, 5.25 "	303 75
Leonard F. Leighton, 6.00 "	148 00
Labor,	61 04
	————— \$2,898 36
Plan cases,	\$95 00
Paper, tracing cloth, blue printing, pens, pencils, inks, erasers, etc.,	170 98
Repairs to instruments, rods and tapes,	87 28
Stakes, spikes and nails,	85 45
	—————
Amounts carried forward,	\$438 71 \$2,898 36 \$4,000 00

Amounts brought forward,	\$438 71	\$2,898 36	\$4,000 00
Car fares on all public wks. dept.,	72 31		
Blue print frame,	13 82		
Cleaning public works and alder-			
manic rooms,	3 55		
E. C. Gould, fees,	3 00		
Printed report,	365 25		
	<hr/>	\$896 64	
		<hr/>	\$3,795 00

Unexpended balance, \$205 00

Classified division of the time of assistants reduced to money is as follows :

Permanent street lines surveys and bench levels,	\$336.50
Lines and grades for sidewalks, curbing and concrete,	166.00
Surveys, and lines and grades for highway construction,	222.00
Street numbering—field and office,	121.50
Street sprinkling assessments and schedules,	86.50
Record grade plans and profiles,	357.00
Water plans and records,	139.00
Deeds, records, computations and general office work,	578.47
Wall maps and tracings,	185.50
Lines and grades for abutters,	37.00
Contour surveys,	181.39
Drains and catch-basins,	12.50
Plans,	241.50
Estimates and computations,	233.50
Bills as itemized elsewhere,	896.64
	<hr/>
	3,795.00

SCHEDULE OF PROPERTY IN OFFICE.

- 52 mounted paper assessment plans.
- 266 mounted paper construction plans and profiles.
- 82 lot plans collected from private sources.
- 333 lot plans copied at Middlesex Co. south registry.
- 53 recorded street plans, tracings and blue prints.
- 60 mounted paper grade plans.

- 188 surface drainage plans of all kinds.
 - 371 detail construction plans, etc.
 - 15 wall maps.
 - 125 lithographs.
 - 21 calculation books.
 - 41 transit survey note books.
 - 24 level note books.
 - 21 Y location books.
 - 74 inspectors' field books.
 - 45 tables, estimates, etc.
 - 3 tables of logariths.
 - 2 transits.
 - 1 Y level.
 - 3 level rods.
 - 1 blue print frame.
 - 6 plumbs.
 - Drafting instruments.
 - 1 atlas.
 - 1 street numbering book.
 - 852 abstracts of deeds, copied at Middlesex Co. registry.
-

CITY HALL.

With the advent of the city government came the demand for additional accommodations, aldermanic chamber, offices, committee rooms, etc. It was finally decided by the aldermen that the room formerly occupied by the water commissioners be repaired, refitted and furnished for an aldermanic chamber. This made it necessary to provide other quarters for carrying on the business of the water division and also for the boards of health and overseers of the poor, who also occupied this room. Rooms were also required for the mayor, city treasurer and the sealer of weights and measures. A plan was devised cutting some of the rooms in two, which by a new assignment gave each office quarters in which to do business. Although the arrangement is not entirely satisfactory it is realized by all that under the cir-

cumstances it is the best that can be done. The officials were particularly considerate, entering pleasantly into any arrangement that was best for the whole without considering personal preference.

The room for the aldermanic chamber was renovated, walls repaired and painted, floor relaid, steel ceiling put up, and refurnished, the expense of which follows:

Appropriation for alterations, . . .	\$300 00	
" " desks and chairs, . . .	490 00	
Amount transferred from treasury, . . .	200 00	
	<hr/>	\$990 00

EXPENDED.

Brock Brothers, gas repairs, . . .	\$1 77	
Perrin, Seamans & Co., pipe and fittings	3 20	
W. L. Wedger & Co., contract ceiling,	85 00	
George Bliss, contract, electric wiring,	49 76	
Derby Desk Co. " desk and chairs	490 00	
Lane Brothers, " plastering, . . .	12 00	
Wm. Morss, contract, carpentering		
and decorating,	125 00	
George Dew, contract, painting and		
decorating,	81 36	
E. R. & E. H. Tarbell, fixtures (gas		
and electric),	75 00	
H. J. Perry, keys,	3 78	
	<hr/>	926 87
Unexpended balance,		\$63 13

The room formerly occupied by the board of selectmen was divided into two rooms with a door between which gave accommodation to the board of assessors and to the collector. A part of the room formerly occupied by the police department was cut off, making a room for the mayor, and leaving a good sized closet as a coat room for the aldermen and which if desired can be readily changed to toilet rooms.

The counters in the city clerk's office were remodelled and set back, making more room for the officials, and the treasurer and auditor are given accommodations here. A new

counter was built for the collector, one changed and rebuilt for the assessors, while a room for the sealer of weights and measures was built in the basement, a new sink and hopper was placed in the tramp room and a new extension stage built for the auditorium.

No specific additional appropriations were made ; the expense of the alterations was authorized and directed taken from the city hall appropriation, which was augmented by a transfer of \$300.00 from the general contingent fund and later by an additional appropriation of \$600.00.

The auditorium has been engaged ten afternoons and fifty-nine evenings, of which thirty-three have paid the regular price, eight the expenses only, and twenty-eight have had it free of charge. The amount collected and paid the treasurer was \$572.12, which was not credited to the appropriation.

A statement of the expenditures in detail follows :

CITY HALL.

Amount of appropriation, . . .	\$2,000 00	
" allowed for January account, . . .	125 27	
" additional,	600 00	
" transferred from contingent, . . .	300 00	
	<hr/>	\$3,025 27

EXPENDED.

Lighting, gas,	\$565 91	
Lighting, electric,	205 12	
Coal,	378 48	
Janitor, 13 months,	670 00	
Janitor, supplies,	49 30	
Labor as per pay rolls,	47 56	
Moving piano,	10 40	
Highway division, labor and teams, . . .	12 94	
Water division, labor and repairs, . . .	2 45	
Filling vase front city hall, \$20.00, and \$5.00 for 50th anniversary, . . .	25 00	
	<hr/>	
Amounts carried forward,	\$1,967 16	\$3,025 27

Amounts brought forward, .	\$1,967 16	\$3,025 27
Expressage,	1 70	
Repair clock,	2 00	
Door checks and hinges,	27 75	
Lumber,	11 23	
Minor repairs in hall and cellar,	58 05	
Gas-piping, plumbing and repairs,	107 04	
Wm. Morss, building partitions, decorating, etc.,	208 00	
Wm. Morss, cell room,	67 00	
“ “ city clerk’s room,	106 32	
“ “ collector’s and assessors’ room,	126 28	
Wm. Morss, mayor’s room,	11 59	
Painting, shades, etc.,	91 77	
Fitting up and furnishing mayor’s room,	198 41	
	<hr/>	\$2,984 30
Unexpended balance,		\$40 97

NOTE: This appropriation was really exceeded by \$104.87, but the auditor returned to me the bill of Wm. Morss amounting to \$79.40, and bill of Malden and Melrose Gas Light Co. amounting to \$76.44, saying they would have to come out of next year’s appropriation; no allowance was made in the appropriation for 1901 and it is therefore probable that it will be exceeded.

MISCELLANEOUS WORK.

In addition to the work for which specific appropriations were made, other minor matters were attended to and the expense charged to the general contingent fund, principal among these were the fitting up and care of the polling places for the city and state elections and caucuses. The following is a statement of all bills approved and paid from the contingent fund:

Bills for rent of polling places, . . .	\$120 00	
W. A. Goodno, stock and labor on booths,	50 25	
W. A. Jeffs, tables and chairs, . . .	6 20	
Lane Bros., repair chimney, . . .	9 06	
Brock Bros., dippers and pails, . . .	3 00	
" " repairs, funnel, etc., . . .	3 00	
Fells Ice Co., ice furnished, . . .	90	
Janitors' services,	27 90	
Oil and brooms, and sundries from Hinckley's and others,	3 09	
S. F. Howes, teaming wood and coal,	81	
Dunton & Potter, printing ward notices,	1 75	
	<hr/>	\$225 96
G. F. Boardman, for use of ball park,		35 00
H. W. Clark, for flag,		26 50
N. E. Telephone Co, service police station and city clerk,		101 40
Inspection wires, labor and team, C. S. Gordon,		15 00
Fells Ice Co., ice furnished fountains,		90 39
Brock Bros., dippers and labor " . . .		3 63
Part of bill for filling case,		20 50
House numbering, Allen Bros., . . .	76 50	
Brock Bros.,	60	
D. H. Woodward,	3 00	
Express on numbers,	25	
Labor and team,	29 00	
	<hr/>	109 35
Austin's stable, hack service cemetery commissioners,		9 00
Moving safe to high school building,		5 00
F. L. Washburn, bill of expenses, . . .		5 49
		<hr/>
Total,		\$647 22

Respectfully submitted,

W. DABNEY HUNTER,
Engineer and Superintendent Public Works Dept.

REPORT
OF THE
CITY AUDITOR
OF THE
CITY OF MELROSE.

To the Honorable, the Board of Aldermen of the City of Melrose :

GENTLEMEN: In accordance with your respected order of April 1st, I have the honor to submit herewith a statement of the receipts and expenditures of the City of Melrose, beginning on the first day of January, 1900, the date of incorporation, and ending of the financial year on the thirty-first day of January, 1901, with a detailed statement of each department, a statement of assets and liabilities, a table showing the funded debt, the dates on which the notes and bonds are payable, together with a schedule of the city property.

Respectfully submitted,

EDWIN C. GOULD,
City Auditor.

City of Melrose, Auditor's office,
April 15th, 1901.

FINANCES.

The assessed valuation of the city, May 1, 1900, was:

Real estate,	\$11,980,675 00
Personal estate including resi- dent bank stock,	797,690 00
	<hr/>
Total valuation,	\$12,778,365 00
Increase in valuation from May 1, 1899, to May 1, 1900, .	112,930 00
Number of dwelling houses May 1, 1900,	3,237

Rate of taxation per \$1000.00 for 1900, \$18.00, was divided as follows, to wit:

City tax,	\$16 39
County tax,	0 64
Metropolitan sewerage, . . .	0 73
State tax,	0 24
	<hr/>
	\$18 00

The municipal debt, Dec. 31, 1899,	\$73,000 00
And decreased by payment of	12,000 00
	<hr/>
Total municipal debt, Jan. 31, 1901,	\$61,000 00

CITY OF MELROSE MUNICIPAL DEBT,
JANUARY 31, 1901.

Central fire station, note due Aug. 1, 1901,	\$10,000 00
Central fire station, note due Aug. 1, 1902,	10,000 00
Grading high school grounds, note due Sept. 21, 1901, . . .	3,000 00

New school building, note		
due Sept. 21, 1901, . . .	\$6,000 00	
Park loan, note due May 15,		
1901,	1,000 00	
Park loan, note due May 15,		
1902,	1,000 00	
Park loan, note due May 15,		
1903,	1,000 00	
Park loan, note due May 15,		
1904,	1,000 00	
Park loan, note due May 15,		
1905,	1,000 00	
Park loan, note due May 15,		
1906,	1,000 00	
Park loan, note due May 15,		
1907,	1,000 00	
Park loan, note due May 15,		
1908,	1,000 00	
Park loan, note due May 15,		
1909,	6,000 00	
Public grounds, note due		
April 22, 1902,	10,000 00	
Stone crusher, note due Jan.		
6, 1903,	8,000 00	
	<hr/>	\$61,000 00

SCHOOL HOUSE DEBT.

School house bonds, 4% due		
Feb. 24, 1916,	\$200,000 00	
Less sinking fund,	13,118 67	
	<hr/>	\$186,881 33

SEWERAGE DEBT.

Sewer bonds, 4%, due June 1,		
1907,	25,000 00	
Sewer bonds, 4%, due June 1,		
1912,	25,000 00	

Sewer bonds, 4%, due June 1,		
1917,	\$50,000 00	
Sewer bonds, 4%, due June 1,		
1924,	100,000 00	
Sewer bonds, 4%, due June 1,		
1925,	100,000 00	
Sewer bonds, 4%, due July 1,		
1926,	50,000 00	
	<hr/>	
Total bonds,	\$350,000 00	
Less sinking fund,	49,404 22	
	<hr/>	\$300,595 78

TOWN (CITY) HALL DEBT.

Town Hall bonds, 4%, due	
Sept. 1, 1912,	\$45,000 00

WATER DEBT.

Water bonds, 4%, due Nov. 1,		
1905,	\$37,000 00	
Water bonds, 4%, due May 1,		
1907,	50,000 00	
Water bonds, 4%, due May 1,		
1912,	25,000 00	
Water bonds, 4%, due Sept. 1,		
1912,	37,000 00	
Water bonds, 4%, due Oct. 1,		
1913,	50,000 00	
Water bonds, 4%, due July 1,		
1925,	38,000 00	
	<hr/>	
Total bonds,	\$237,000 00	
Less sinking fund,	26,404 30	
	<hr/>	\$210,595 70

RECAPITULATION OF THE TOTAL FUNDED DEBT,
JANUARY 31, 1901.

Municipal debt,	\$61,000 00
School house debt,	186,881 33
Sewerage "	300,595 78
Town Hall "	45,000 00
Water "	210,595 70
	<hr/>
	\$804,072 81

FUNDED DEBT STATEMENT.

Total amount Dec. 31, 1899,	\$819,603 34
Decrease in 1900,	15,530 53
	<hr/>
	\$804,072 81
Decrease in municipal debt,	\$12,000 00
Decrease in school house debt,	863 78
Decrease in sewerage debt,	1,955 44
Decrease in water debt,	711 31
	<hr/>
	\$15,530 53

CASH ACCOUNT FOR 1900

January 1.	
To cash on hand,	\$ 5,660 02
Commonwealth of Massachusetts,	17,246 37
Sewerage assessments,	23,816 64
Sinking fund commissioners,	10,000 00
Sale of temporary loans,	129,600 00
Taxes collected,	227,851 15
Redemption of tax titles,	1,247 62
Water income,	51,893 32
Sundries,	32,175 02
Trust funds,	2,172 00
	<hr/>
	\$501,662 14

Jan. 31, by payments,	.	.	.	.	\$4,909 46
Feb. 28, " " . . . . .	.	.	.	.	30,214 42
March 31, " " . . . . .	.	.	.	.	21,487 79
April 30, " " . . . . .	.	.	.	.	27,771 84
May 31, " " . . . . .	.	.	.	.	34,267 77
June 30, " " . . . . .	.	.	.	.	38,039 79
July 31, " " . . . . .	.	.	.	.	66,036 92
Aug. 31, " " . . . . .	.	.	.	.	18,805 98
Sept. 30, " " . . . . .	.	.	.	.	24,491 10
Oct. 31, " " . . . . .	.	.	.	.	17,528 06
Nov. 30, " " . . . . .	.	.	.	.	57,535 40
Dec. 31, " " . . . . .	.	.	.	.	124,660 94
Jan. 31, " " . . . . .	.	.	.	.	33,444 26
					<hr/>
					499,193 73
Jan. 31, by cash on hand,	.	.	.	.	2,468 41
					<hr/>
					501,662 14

LEDGER BALANCES, JAN. 31, 1901.

Cash,	\$2,468 41	
Cemetery,	8,080 12	
Contingent, general,	190 20	
" alderman's,		\$106 80
" collector's,		34 52
Fire department,		202 15
Insurance,		12 97
Interest,		5,507 15
Military aid,		55 29
Police department,		59
Poor department,	2,003 09	
Public library,		70 51
Salaries,		282 80
Sewer assessments, uncol- lected,	81,735 39	
Soldiers' burial,	35 00	
Soldiers' relief,	532 15	
State aid,	215 00	

Toothaker fund,		\$1,582 11
Engineering office,		205 00
Highways,		588 14
Parks,		118 28
City hall,		40 97
Public works office,		12 60
Sewer construction,		477 79
Sidewalks,		179 83
Street lights,		25 62
Street sprinkling,	1,900 06	
Water fund,		11,688 90
Cemetery trust funds,		6,462 50
Loans, temporary,		64,600 00
Commonwealth of Mass., . . .	3,125 71	
Overlays, abatements, etc., .		16,230 76
Taxes, uncollected,	109,660 03	
Tax titles,	3,553 20	
Treasury,		1,629 80
Ell pond park,		936 57
Aldermanic chamber,		63 13
Inspector of buildings,		12 50
Sewer assessments fund, unpaid		118,257 04
Deficiencies, Jan. 1900, ex-		
pended,	12,732 96	
Deficiencies, special orders .	3,153 00	
	<hr/>	<hr/>
	\$229,384 32	\$229,384 32
Permanent debt,	61,000 00	
School house debt,	200,000 00	
Sewer "	350,000 00	
City hall "	45,000 00	
Water "	237,000 00	
School house loan sinking		
fund commissioners,	13,818 67	
Sewer loan sinking fund		
commissioners,	49,404 22	
Water loan sinking fund		
commissioners,	26,404 30	

Permanent loans,	\$61,000 00
School house bonds,	200,000 00
Sewer loan "	350,000 00
Water " "	237,000 00
City hall "	45,000 00
School house loan sinking fund,	13,118 67
Sewer loan sinking fund, . .	49,404 22
Water " " "	26,404 30
	<hr/>
	\$1,211,311 51 \$1,211,311 51

CITY OF MELROSE, BALANCE SHEET, JANUARY
31, 1901.

ASSETS AND LIABILITIES FROM APPROPRIATIONS OF
1895 TO 1900.

Assets.

Cash in hands of treasurer,	\$2,468 41	✓
Balance due from cemetery,	8,080 12	
" " " contingent general,	190 20	
" " " poor dept.,	2,003 09	
" " " soldiers' burial,	35 00	✓
" " " " relief,	532 15	
" " " state aid,	215 00	✓
" " " street sprinkling,	1,900 06	
" " " commonwealth of Mass.,	3,125 71	✓
" " " uncollected taxes,	109,660 03	
" " " tax titles,	3,553 20	✓
" " " Jan., 1900, expenses,	12,732 96	
" " " special orders,	3,153 00	
	<hr/>	
	\$147,648 93	

Liabilities.

By Toothaker fund,	1,582 11
" cemetery trust funds,	6,462 50

By overlays,	\$16,230 76
“ contingent, aldermen,	106 80
“ “ collectors,	34 52
“ fire department,	202 15
“ insurance,	12 97
“ interest,	5,507 15
“ military aid,	55 29
“ police department,	59
“ public library,	70 51
“ salaries,	282 80
“ public works department,	13,337 13
“ temporary loans,	64,600 00
“ Ell pond park,	936 57
“ aldermanic chamber,	63 13
“ inspector of buildings,	12 50
“ sewer assessments collected,	36,521 65
“ treasury,	1,629 80
	<hr/>
	\$147,648 93

CITY OF MELROSE, ASSETS AND LIABILITIES.

Assets.

To amount invested in land, buildings, public parks and other property,	\$677,246 25
To amount invested in school house sinking fund,	13,118 67 4
To amount invested in sewer sinking fund,	49,404 22
To amount invested in water sinking fund,	26,404 30
Total cost of Melrose sewer- age,	362,590 03
Total cost of Melrose water works,	422,373 29

Liabilities.

By total municipal indebted-		
ness,		\$893,000 00
Assets exceed liabilities, . .		658,136 76
	<hr/>	<hr/>
	\$1,551,136 76	\$1,551,136 76

TREASURY.

Receipts.

Bank tax,	\$2,442 97	
Corporation tax,	10,226 44	
Street railway tax,	1,317 96	
City clerk fees,	296 00	
Inspector of milk fees,	61 00	
Sealer of weights and mea-		
sures fees,	56 41	
School tuition, 1899,	772 50	
Use of hall,	657 12	
Highways, 1899,	44 70	
Poor dep't., "	383 84	
Sidewalks, "	203 13	
Court fees and fines,	161 42	
Transfers,	1,200 00	
	<hr/>	\$17,823 49
Less over draft, 1899,		2,760 91
		<hr/>
		\$15,062 58

Expended.

State treasurer, bank tax,	883 15	
Transfers,	12,549 63	
	<hr/>	
	\$13,432 78	
Balance to 1901,	1,629 80	
	<hr/>	
		\$15,062 58

TABLE SHOWING AGGREGATE TRANSACTIONS IN EACH CITY ACCOUNT.

ACCOUNTS	Balance from 1899	Appropriations and orders	Transfer to	Receipts	Overdrafts 1899	Transfer from	Expenditures	Unexpended balance	Overdrawn
Aldermanic chamber.....	\$300.00	\$200.00	.....	.....	.....	\$436.87	\$63.13	.....
" desks, etc.....	490.00	.....	.....	.....	.....	490.00	.....	.....
Cemetery.....	\$4,389.96	.....	.....	5,015.57	.....	\$625.61
Charity department.....	8,322.01	42.71	1,934.25	.....	.....	12,302.06	.....	2,003.09
City clerk, clerical assistant	600.00	.....	.....	.....	.....	600.00	.....	.....
Claims.....	168.34	31.88	.....	.....	.....	200.22	.....	.....
Commonwealth of Mass.....	344.71	.....	344.71
Contingent, aldermanic.....	773.00	44.32	.....	.....	\$200.00	510.52	106.80	.....
" assessors'.....	\$215.57	610.00	58.65	.....	.....	.....	884.22	.....	.....
" city clerk's.....	278.60	217.40	.....	.....	.....	496.00	.....	.....
" collector's.....	600.00	300.00	.....	.....	.....	865.48	34.52	.....
" general.....	3,218.90	20.35	.....	.....	902.82	2,526.63	.....	190.20
County taxes.....	11,857.11	.....	.....	.....	.....	11,857.11	.....	.....
Debt, permanent.....	12,000.00	.....	.....	.....	12,000.00	.....	.....
Ell pond park.....	4,192.26	.....	.....	.....	.....	.....	3,255.69	936.57	.....
Fiftieth anniversary.....	500.00	.....	.....	.....	414.00	86.00	.....	.....
Fire department.....	12,715.93	.....	.....	.....	.....	12,513.78	202.15	.....
Fourth of July.....	200.00	414.00	.....	.....	44.32	569.68	.....	.....
Health department.....	2,688.52	.....	41.70	.....	.....	2,730.22	.....	.....
Insurance.....	831.74	.....	22.57	.....	.....	841.34	12.97	.....
Interest.....	3,707.11	26,000.00	6,531.65	712.82	.....	.....	31,444.43	5,507.15	.....
Inspector of buildings.....	40.00	.....	.....	.....	27.50	12.50	.....
Loans, temporary.....	129,600.00	.....	.....	1,083.33	.....	17,774.37
Melrose hospital.....	250.00	833.33	.....	.....	.....	.....	200.00	.....	.....
Memorial day.....	200.00	.....	.....	.....	.....	204.29	55.29	.....
Military aid.....	345.00	.....	.....	.....	85.42	.....	.....	.....
Overlays.....	10,988.58	.....	.....	13,730.11	.....	8,487.93	.....	16,230.76	.....
Police department.....	12,399.51	80.00	5.00	.....	.....	12,483.92	.59	.....
Public library.....	2,951.71	1,016.57	3,897.77	70.51
Salaries.....	733.89	11,144.04	204.17	11,799.30	282.80

AUDITOR'S REPORT.

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Schools	12,705.01	83,647.01	1,176.08	2,510.89	84,823.09	36,521.65
Sewer assessments			26,327.53			140.00
Soldiers' burial					140.00	532.15
Soldiers' relief		1,340.50	364.51		2,279.87	2,891.00
State aid		6,645.00			6,645.00	
State tax		9,431.01			9,431.01	
sewerage		134.00			134.00	
Surety bonds		8,164.26	231,871.91	4,020.76		236,015.41
Taxes		323.67			323.67	
refunded			1,247.62		4,800.82	3,553.20
Tax takings		1,260.00	16,623.49	12,549.63	883.15	1,629.80
Treasury	5,212.50		1,250.00			6,462.50
Trust fund, cemetery	809.78		922.00		149.67	1,582.11
" Toothaker			10,000.00		10,000.00	
Water bonds		2,725.27			2,984.30	40.97
City hall		3,000.00		37.14	2,757.86	205.00
Engineering division		21,237.81	2,238.13		22,887.80	588.14
Highway division		400.00			281.72	118.28
Parks		1,145.03	3.78		1,136.21	12.60
Public works office	3,303.86		7,216.01		10,042.08	477.79
Sewer division		2,500.00	267.64		2,587.81	179.83
Sidewalks		12,423.12			12,397.50	25.62
Street lights			3,618.33		4,334.60	
Street sprinkling			1,183.79		1,037.14	1,900.06
Surface drainage		1,000.00			39,204.42	
Water division		37.14	51,893.32	1,000.00		11,688.90
	\$42,118.56	\$243,656.49	\$506,473.33	\$30,252.91	\$499,193.73	\$319,064.34
		42,118.56				499,193.73
		30,252.91				30,252.91
		506,473.33				3,944.70
		29,954.39				
	\$852,455.68					\$852,455.68

ALDERMANIC CHAMBER.

Alterations, Etc.

Appropriation,	\$300 00	
Transferred from treasury account,	200 00	
	<hr/>	\$500 00

EXPENDED.

Bliss, Geo. E., stock and labor.		
electric work,	\$49 76	
Brock Bros., gas pipe and fittings,	1 77	
Dew, Geo. W., painting and var-		
nishing, etc.,	81 36	
Lane Bros., repairing plastering, .	12 00	
Morss, Wm., contract,	125 00	
Perrin, Seamens & Co., valves etc.,	3 20	
Perry, H. J., 21 Yale lock keys, .	3 78	
Tarbell, E. R. & E. H., 6 light		
brass chandelier,	75 00	
Wedger & Co., W. L., steel ceil-		
ing, contract,	85 00	
	<hr/>	
	\$436 87	
Balance,	63 13	
	<hr/>	
	\$500 00	\$500 00

ALDERMANIC CHAMBER.

Desks and Chairs.

Appropriation,	\$490 00
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EXPENDED.

Derby Desk Co., desks and chairs,	\$490 00	
	<hr/>	
Total expended,	\$490 00	\$490 00

CEMETERY.

RECEIPTS.

Cash for dressing. . . .	\$18 00
" " foundations, . . .	254 25
" " single graves, . . .	155 00
" " interments, . . .	621 00
" " labor, . . .	166 25
" " care of lots, . . .	1,279 21
" " sale of lots, . . .	1,789 00
" " use of tomb, . . .	25 00
" " vaults, . . .	40 00
" " wood, . . .	42 25

 \$4,389 96

EXPENDED.

Alden Speare's Sons Co., slate vaults,	\$82 24
Allen-Thompson-Whitney Co., settees,	6 40
Boston Lead Mfg. Co., pump. .	11 35
Boston & Maine R. R., freight, .	64 37
Casey, C., flowers, . . .	29 25
Chandler, H. W., frame for plan,	1 40
Coyle, F. E., hardware, . . .	17 19
Dahlen, J., signs,	27 50
Davis express, expressage, . .	25
Deering & Co., J. P., lumber, .	10 80
Dimond & Co., H. C., stamp, .	80
Dunton & Potter, printing, . .	3 25
Eastman's express, expressage, .	7 51
Gibbons, J., contract, grading lots,	932 15
Goss, C. B. & F. H., cement and lime,	39 80
Grant, U. S. Post 4, teaming cannon,	10 00
Harris, Mrs. G. W, dressing and loam,	10 95
Hocking, A., P. M., stamps, . .	15 00

Kelley, M., sods,	\$20 62	
Lahey Bros., granite posts,	17 86	
Lead Lined Pipe Co., pipe,	202 72	
Larrabee & Barry, surveying,	16 00	
Larrabee & Stearns, sundries,	2 85	
Lovejoy, S. A., insurance,	7 50	
McCoubry, Thos., blacksmithing,	7 05	
" W. J.,	23 45	
Melrose Journal, ad. and printing,	22 00	
Melrose Hardware Co., sundries,	41 73	
Melrose, city of, water div., pipe,	10 41	
Merchant's express, expressage,	4 00	
Mitchell Mfg. Co., hat band,	75	
Nickerson, L., duck cover,	14 25	
Orpin Bros., desk and chair,	22 50	
Osgood & Hart, grates,	14 58	
Page, H. S., repair on lock,	3 50	
Pearce, W. A., stock and labor,		
water pipes,	32 64	
Philpot, R., sprinkling May 30,	3 00	
Perry, H. J., hardware,	15 66	
Small & Co., E. S., typewriting,	1 00	
Stevens, H., drain pipe,	103 32	
Sugden & Quimby, bier,	6 00	
Thorp & Martin Co., sundries,	3 75	
Upham, F. R., dressing,	9 00	
Warren Co., M. R., record book,	1 75	
Wheaton, H. D., teaming vaults,	3 00	
Whittier & Co., W. B., shrubs, etc.,	46 72	
Woodward, D. R., filing saw,	50	
Pay rolls, labor,	2,193 37	
" " teams,	113 88	
Leavitt, R. A., salary,	780 00	
		<hr/>
Total expended,	\$5,015 57	
Expense more than receipts,		\$625 61
		<hr/>
	\$5,015 57	\$5,015 57

NOTE: See detail report of cemetery committee.

CHARITY DEPARTMENT.

Appropriations,	\$8,000 00	
Treasurer authorized to borrow, .	322 01	
Received from Cambridge, city of,	33 50	
" " Malden, " "	154 88	
" " Somerville, " "	45 00	
" " Woburn, " "	23 60	
" " Mass., Common-		
wealth of,	348 48	
Received from Braintree, town of,	168 80	
" " Lexington, " "	138 05	
" " Wakefield, " "	21 73	
" " milk and produce,		
Pratt farm,	327 82	
Received from individuals, re-		
funded,	545 64	
Received from soldiers' relief, re-		
funded,	126 75	
Transferred from military aid, .	42 71	
	<hr/>	\$10,298 97

EXPENDED.

Board, Clothing, Boots and Shoes.

Burnes, B.,	\$13 50
Clement's Emporium,	22 35
Cox, F. E.,	3 00
Fields & Co., H. G.,	160 40
Forbes, Mrs. A.,	65 00
Framingham, town of,	29 64
Guyer, L. B.,	3 50
Hawkins, Mary,	156 00
Hitchings, Mrs. J.,	23 00
Hospital cottage for children, .	169 45
Keating, J. J.,	96 75
Newhall & Co., G.,	340 00
Philbrick & Son, A. J.,	9 46

Percell, Mrs. J.,	\$10 00
Sim, A. S.,	34 59
Whitten, Mrs. G. J.,	16 80

\$1,153 44

Fuel.

Benson & Co., S. E.,	\$263 35
Goss, C. B. & F. H.,	332 91
Hellen, S. H.,	6 51
Marshall, James,	42 25
Newell & Walker,	293 28
Proudfoot & Co., D.,	3 13

\$941 43

Groceries, Provisions, Etc.

Boston market,	\$53 40
Bugbee & Barrett,	422 63
Earle, E. T.,	1 50
Foster, J. T.,	87 50
Friend Bros.,	1 95
Frost & Hawes,	498 57
Fuller & Co., D. H.,	2 50
Gerry, E. F.,	1 50
Hinckley, L. F.,	810 43
Holbrook & Norton,	30 00
Hovey & Co., H. N.,	156 00
Keen, A. E.,	23 50
Luce, A. A.,	2 03
Lucey Bros.,	221 07
Marsh, C. W.,	9 45
Munn, G. B.,	2 00
Owen Bros.,	150 11
Quimby & Co., W. D.,	6 00
Quincy market,	72 50
Sanborn, F. E.,	128 01
Singer, J., Jr.,	102 50

Small & Co., F. C.,	\$ 3 25
Smart, W. T.,	5 60
Stoddard, V. H.,	58 50
	<hr/>
	\$2,850 50

Medical Attendance, Nursing, Medicine, Etc.

Abbott, C. T.,	\$50 35
Crescent drug store,. . . .	23 72
Cross, H. M. & L. W.,	20 60
Dalton, M. J., M. D.,	12 40
Fish, E. C., M. D.,	39 20
Holden, C. P., M. D.,	16 00
Hyatt, Mrs. C.,	10 00
Jack, E. S., M. D.,	9 00
Larrabee & Stearns,	45 76
Morse, F. H., M. D.,	20 00
Nason, O. C. B., M. D.,	8 50
Perley, R. D., M. D.,	6 00
Raynes, M. B., M. D.,	35 00
Schooff, Wm. J.,	4 25
Selee, A. M., M. D.,	28 00
Townsend, W. M., M. D. . . .	33 50
	<hr/>
	\$362 28

Outside Relief

Cambridge city of,	\$ 1 40
Malden, " "	146 53
Revere, town "	28 63
Stoneham, " "	223 25
Somerville, city "	14 86
	<hr/>
	\$414 67

Rents.

Burke, G. W., agent,	\$10 00
Burnett, S. E.,	104 00
Farley, L. S.,	120 00

Farnsworth, G. W., estate, . . .	\$16 00
Faxon, H. R.,	20 00
Flannery, B.,	54 00
Geist, J.,	34 00
Harvey, S. W.,	118 00
Hawkes, Nancy,	2 00
Jackson, F. A., agent,	40 00
Kelley, M.,	84 00
Lucey, Bros.,	17 50
Mosely, A., estate,	80 00
Murray, Mary E.,	8 00
Pevey, F. M., estate,	63 00
Quinn, D.,	36 00
Reed, G. E.,	72 00
Smith, S. A.,	16 00
Upham, F. R.,	63 00
	<hr/>
	\$957 50

Support of Insane.

Allen, Mrs. H. P.	\$20 89
Commonwealth of Mass., . . .	112 24
Danvers insane hospital, . . .	2,290 78
Ellis, Mrs. G.,	69 64
Medfield insane asylum, . . .	292 00
Westborough insane hospital, .	380 72
Worcester insane asylum, . . .	58 49
Worcester insane hospital, . .	338 92
	<hr/>
	\$3,563 68

Miscellaneous.

Ames Plow Co., plow and harrow,	\$22 75
Allowance, cash, pay roll, . .	95 00
Barry, Beale & Co., F. W., files, .	2 50
Blaisdell, J. E., labor,	220 50
Blythe & Co., B., repairs, . . .	7 00

Boardman & Co., W. W., hacking,	\$ 5 00
Bonett, Mrs. A. J., salary, matron,	75 00
" A. J., services and supplies,	39 99
Boston & Maine R. R., tickets, .	7 18
Brock Bros., hose, stock, labor, .	51 50
Burnett, Mrs. S. E., cows, . . .	125 00
Buttrick, S. H , cash expenses, .	13 10
Cahill, E. P., contract, plastering,	50 00
Carlton, T. L., tomato plants, .	6 00
Chandler, Mrs. C., salary, matron,	166 67
" " " sundries, . . .	12 65
" H. W., paint, . . .	10 56
" L. E., horse shoeing and repairs,	2 75
Coyle, F. E., hardware, tools, etc.,	26 34
Damon, G. E., democrat wagon, .	55 00
Decatur & Fowkes, iron beds and bedding,	32 50
Deering & Co., J. P., lumber, .	94 89
Dimond & Co., H. C., stamp, .	90
Dunton & Potter, printing, . . .	13 50
Eastman's express, expressage, .	8 40
Fells Ice Co., ice,	24 77
Forbes, J., labor, lathing, . . .	3 00
Gately, J., undertaker's services, .	30 00
Gay & Co., A R., copy-press, etc.,	38 15
Gibbons, J., man and horse, . . .	11 00
Harriman, H. D , washing powder,	9 50
Harvey, S.W., undertaker's services,	38 00
Hewey, Mrs. A. D., services, . .	23 00
Hill, A , Jr., extracting teeth, .	3 50
Jefts, W. A., chairs,	7 00
Jones, Mrs. C. S , services, . . .	2 00
Kaulbeck, H., repairs to harness, etc.,	7 90
Langiell, W. D , sundries, . . .	5 35
Lawrence, A. A., repairs to har- ness, etc.,	11 00
McCoubry, T., horse shoeing, .	2 85

McCoubry, W. J., horse shoeing,	\$ 2 25
McCullough, J. J., undertaker's services,	10 00
McFarlin, W. J., kitchen sundries,	10 43
McLaughlin, F. M., cash expenses,	1 15
McMaan, A., labor,	26 00
Melrose club stable, carriages, .	6 00
Melrose city of, water div., repairs on pipes,	2 41
Meyer, F. G., labor,	294 54
Mitler, J. S., manure,	20 00
Mitchell, H. O., cow,	55 00
N. E. Telephone and Tel. Co., rentals,	35 50
Perry, H. J., hardware and sundries,	99 66
Reading, town of, care of injured boy,	2 00
Ripley, T. W., book and envelopes,	8 50
Sheldon & Swain, cow,	20 00
Smith Bros., sharpening saw, . .	25
Smith, W. A., clock and spectacles,	8 71
Sturges, F. P., prof. service, . .	6 00
Thurston, L. A., labor,	58 74
Tripp, I. L., horseshoeing, . . .	6 25
Tuttle, A. M., fruit trees, . . .	6 00
Washburn, F. L., cash expenses, .	7 97
Weaver, C. S., services,	3 50
Wheaton, H. D., teaming,	6 00
	<hr/>
	\$2,058 56

RECAPITULATION.

Board, clothing, boots and shoes,	\$1,153 44
Fuel,	941 43
Groceries, provisions, etc., . . .	2,850 50
Medical attendance, nursing and medicine,	362 28
Outside relief,	414 67

Rents,	\$957 50	
Support of insane,	3,563 68	
Miscellaneous bills,	2,058 56	
	<hr/>	
Total expended,	\$12,302 06	
Balance overdrawn,		\$2,003 09
	<hr/>	<hr/>
	\$12,302 06	\$12,302 06

CITY CLERK'S OFFICE, CLERICAL ASSISTANCE.

Treasurer authorized to borrow,	\$600 00
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EXPENDED.

Kirmes, V. C., services, 12 mos.,	\$600 00	
	<hr/>	<hr/>
Total expended,	\$600 00	\$600 00

CLAIMS.

Appropriations,	\$168 34	
Transferred from treasury,	31 88	
	<hr/>	\$200 22

EXPENDED.

Baker, J. T., salary, 2 mos.,	\$83 34	
Blanchard, C. C., damage to team,	25 00	
Dole, W. H., services,	50 00	
Everett, F. E., sidewalk,	6 88	
Porter, Mary E., injury to horse,	35 00	
	<hr/>	<hr/>
Total expended,	\$200 22	\$200 22

COMMONWEALTH OF MASSACHUSETTS.

EXPENDED.

Amount transferred from military account,	\$246 71	
Amount transferred from soldiers' relief fund,	98 00	
	<hr/>	\$344 71
Refunded by commonwealth, Dec. 1901.		

CONTINGENT, ALDERMANIC.

Appropriation,	\$525 00	
Treasurer authorized to borrow, .	248 00	
Transferred from July 4th app. .	44 32	
	<hr/>	\$817 32

EXPENDED.

Adams, Cushing & Foster, record books, etc.,	\$33 13
Allen Bros., plates,	4 45
American express, expressage, .	15
Derby Desk Co., rail for desk, .	2 00
Dunton & Potter, printing, . . .	288 35
Dunton & Co., A. W., printing, .	11 25
Eastman's express, expressage. .	1 10
Gay and Co, A. R., record books and boxes,	31 50
Gray, Peter, water cooler, . . .	10 00
Hicks R., wire screens,	9 50
Jefts, W. A., tables,	6 00
Jones, W. DeH., postage and pos- tals,	9 00
Larrabee & Stearns, sundries, pens, etc.,	5 89

Long and Co., Thos., clock, . . .	\$35 00	
McFarlin, W. J., cuspidors and soap,	1 25	
Melrose Journal, envelopes, . . .	1 25	
Perry, H. J., locks and pulls, . .	15 50	
Philbrick & Son, A. J., towels, . .	2 50	
Pierce, W. L. posting notices, . .	9 20	
Potter, S. G., printing,	13 25	
Stone, H. W., engrossing resolu- tions,	18 00	
Thorp & Martin Co., blotting paper,	2 25	
<hr/>		
Total expended,	\$510 52	
Transfer to treasury,	200 00	
Balance,	106 80	
<hr/>		
	\$817 32	\$817 32

CONTINGENT, ASSESSORS.

Balance from 1899,	\$215 57	
Appropriation,	600 00	
Treasurer authorized to borrow, .	10 00	
Transferred from gen'l contingent,	58 65	
<hr/>		
		\$884 22

EXPENDED.

Bankers & Tradesman Co., subscription,	\$5 00	
Boyd, B., transfers,	7 00	
Buttrick, S. H., transfers,	18 20	
Crolly, J. C., cash expenses, . . .	13 60	
Dunton & Potter, printing valua- tion book,	378 00	
Dunton & Potter, printing poll book,	204 80	
" " " and books,	36 45	

Ford, Sarah N., transfers,	\$67 62	
Larrabee & Stearns, pens, pencils, etc.	4 80	
Melrose Journal, printing,	7 00	
Pierce, W. L., posting notices, . .	1 00	
Potter, S. G., street books and pencils,	25 75	
Reading, town of, list of mining stocks,	8 00	
Ripley, T. W., street books,	10 00	
Upham, F. R., use of horse and car- riage,	65 00	
Washburn, F. L., cash p'd record- ing release,	2 50	
Yawman & Erbe Mfg. Co., card cabinet,	29 50	
	<hr/>	
Total expended,	\$884 22	\$884 22

CONTINGENT, CITY CLERK'S.

Appropriation,	\$200 00	
Treasurer authorized to borrow, .	78 60	
Transfer from treasury, fees, . . .	217 40	
	<hr/>	
		\$496 00

EXPENDED.

Adams, Cushing & Foster, record book, etc.,	\$90 05
American Ex. Co., expressing, . .	75
Blanchard & Co. F. S., year book,	3 00
Burnham, H. M., canvassing birth returns,	35 10
Carter Ink Co., The, ink,	2 92
Dimond & Co., H. C., stamps, . .	4 80
Dunton & Potter, printing, . . .	29 75
Eastman's express, expressing, . .	3 10
Gibson, R. M., lettering on door, .	2 50
Goodno, W. A., window fasts, . .	3 00

Jones, E. A., directory,	\$ 2 00	
Jones, W. DeH., recording births, marriages, and deaths,	165 70	
Jones, W. DeH., cash paid, sundry expenses,	62 68	
Library Bureau, cards,	7 90	
Little, Brown & Co., book,	2 00	
Melrose Journal, printing,	66 75	
Page, H. S., labor and keys,	7 00	
Pierce, W. L., posting dog notices,	2 00	
Sampson, Murdock & Co., directory	5 00	
		<hr/>
Total expended,	\$496 00	\$496 00

CONTINGENT, COLLECTORS.

Appropriation,	\$600 00	
Transfer from general contingent,	300 00	
		<hr/>
		900 00

EXPENDED.

Bailey, Thos. T., salary,	\$500 00	
Dunton & Potter, printing,	76 62	
Gibson, R. M., glass sign,	1 25	
Gordon, C. S., distributing tax bills,	45 00	
Melrose Journal, printing, etc.,	32 00	
Murray, J. W., postage stamps,	186 40	
Perry, H. J., waste basket and shears,	2 00	
Poole T. D., date stamps,	2 25	
Potter, S. G., books, pens, etc.,	4 00	
Ricker, J. E., supplies,	1 45	
Warren Co., M. R., books, pens, etc.,	14 51	
		<hr/>
Total expended,	\$865 48	
Balance,	34 52	
		<hr/>
	\$900 00	900 00

CONTINGENT, GENERAL.

Appropriation,	\$2,500 00	
Treasurer authorized to borrow,	718 90	
Transfer from treasury,	20 35	
	<hr/>	\$3,239 25

EXPENDED.

Adams, Cushing & Foster, books and paper,	\$71 70
American Ex. Co., express,	75
Allen Bros., door numbers,	77 50
Austin, C. H., hack hire,	9 00
Boardman, G. F., rent of ball park,	35 00
Brigham, A. L., special officer, election,	1 25
Brock Bros., stock and labor,	11 13
Clark, H. W., flag,	26 50
“ J. S., rent of ward room,	20 00
Crane, C. C., M. D., examination of applicants civil service,	12 00
Denny, G. H., resetting diamond point,	1 00
Dill & Co., J. A., use of chairs,	7 05
Dimond & Co., H. C., seal and stamp,	5 27
Dunton & Potter, printing,	391 76
Dunton & Co., A. W., “	191 70
Eastman's express, expressage,	5 90
Eastman, M. F., rent of ward room,	40 00
Fairbanks Co., The, weights, S. of W. & M.,	3 98
Fells Ice Co., ice for drinking fountain,	91 29
Frost & Hawes, oil,	1 71
Gordon, C. S., labor on wires,	10 00

Goss, C. B. & F. H., wood for ward room,	\$ 0 50
Gould, L. S., extra printing, ad- dress,	10 00
Gordon, W. A., labor on booths, election,	50 25
Hinckley, L. F., broom and oil, ward room,	88
Hinds, J. J., special officer, election,	1 25
Hocking, A., P. M., stamps and box rents,	33 50
Howes, F. S., teaming coal, ward room,	81
Hurd, Wm. A., meals, registrars of voters, election,	10 25
Jefts, W. A., chairs and table, ward room,	6 20
Jones, W. DeHaven, extra clerical services, election,	18 00
Kendal, F. H., copying report, .	2 50
Knights, Samuel, ringing bells, .	8 00
Knott, L. E. Apparatus Co., lac- toscope,	3 70
Labor, public works dept., pay roll,	18 00
Lane Bros., rebuilding chimney, ward room,	9 06
Larrabee & Stearns, sundries for election,	12 98
Lincoln-Dillaway Co., halliards, .	2 62
Lynde, A. W., special officer, election,	1 25
MacArthur, M., canvassing, birth returns,	33 60
McIlwrath, A. B., ringing bells, .	10 00
Mellen, W. E., ballot boxes, elec- tion,	7 90
Melrose club stable, horse and buggy,	16 00
Melrose Journal, printing, . . .	142 00

Melrose National Bank, checkbook,	\$21 00
New England Telephone and Tel. Co., rentals,	122 50
Palmeter, S. H. special officer, election,	1 25
Perry, H. J., hardware,	2 88
Physicians' pay roll, return of births,	98 75
Pierce, A. B. & Son, return of deaths,	36 00
Pierce, W. L., posting notices and warrants,	52 00
Pike, E. W., janitor ward room,	7 50
Potter, S. G., printing,	5 00
Pay rolls, state election, ward officers,	272 00
Pay rolls, city election, ward officers,	261 00
Pay roll, city election, recount, .	30 00
Ricker, J. E., record books, . .	70
Roberts, A. T., clamp and drill, S. of W. & M.,	3 40
Rogers, A. E., rent ward room, .	40 00
Ryan, James, stamp S. of W. & M.,	3 70
Sherburn, E. E., special officer, election,	1 25
Smith Bros., repairing ballot boxes, election,	3 00
Smith, J. T., special officer, elec- tion,	1 25
Thorp & Martin Co., books, etc., .	4 07
Washburn, F. L., cash expenses, .	5 49
Walton & Son, Oliver, return of deaths,	8 50
Warren Co., M. R., record books and paper,	35 30
Webster Co., H. E., evap. dishes, insp. of milk,	1 20
Wing, Chas. J., building extra stage,	10 00

Wing, Chas. J., special officer election,	\$ 1 25	
Wing, Chas. J., ringing bell, . . .	10 00	
" C. Joseph, " " . . .	10 00	
" " " janitor ward room, election,	20 40	
Woodward, D. H., box for door numbers,	3 00	
Wyoming Lodge, trustees of, rent ward room,	20 00	
Yawman & Erbe Mfg. Co., $\frac{1}{4}$ cost file case,	20 50	
Total expended,	\$2,526 63	
Transfers per order city hall, . .	300 00	
Salaries,	204 17	
Inspector of buildings,	40 00	
Collector's contingent,	300 00	
Assessors' "	58 65	
Amount overdrawn,		\$190 20
	<hr/> \$3,429 45	<hr/> \$3,429 45

COUNTY TAXES

Amount assessed, \$11,857 11

EXPENDED.

Paid county treasurer, \$11,857 11

ELL POND PARK.

Balance from town, \$4,192 26

EXPENDED.

Andover Savings Bank, award,	\$200 00
Boston Blue Print Co., blue prints,	2 44
Brennan, Annie M., award, . . .	200 00

Conway, Mary E. and Eliza, award,	\$250 00	
Fields, Mrs. E. J., award, . . .	400 00	
Holbrook, J. Q. A., " . . .	600 00	
Magner, Wm., " . . .	800 00	
Melrose Savings Bank, " . . .	653 25	
Worthington, James, " . . .	150 00	
	<hr/>	
Total expended, . . .	\$3,255 69	
Balance, . . .	936 57	
	<hr/>	
	\$4,192 26	\$4,192 26

FIFTIETH ANNIVERSARY OF TOWN.

Appropriation,	\$500 00
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EXPENDED.

Dill & Co., J.A., expense cancelled contract,	\$15 00	
Dunton & Potter, printing, badges, etc.,	4 50	
Granville, The, meals,	15 00	
Melrose Journal, printing,	8 50	
N. E. Decorating Co., decorating city hall,	40 00	
Pierce, W. L., posting notices,	3 00	
	<hr/>	
Total expended,	\$86 00	
Transferred to 4th July celebration,	414 00	
	<hr/>	
	\$500 00	\$500 00

FIRE DEPARTMENT.

Appropriation,	\$11,500 00	
Treasurer authorized to borrow,	1,215 93	
	<hr/>	
		\$12,715 93

EXPENDED.

Ame & Co., standard food, . . .	\$16 50
Auburn Brush & Mop Co., scrub, . . .	7 50
Barnes, H. K., hose and harness, . . .	68 00
Barrett, W. M., labor and stock, . . .	29 00
Beattie Zinc Works Co., zinc, . . .	172 50
Benson & Co., S. E., fuel and hay, . . .	303 55
Boston Bolt Co., lag screws, . . .	3 20
Boston Coupling Co., supplies and repairs,	47 43
Brock Bros., sundries, stock and labor,	47 64
Bugbee & Barrett, sundries, oil, etc.	9 01
Burnett, A. J., use of horse,	2 00
Burton Oil Co., harness oil,	5 00
Callahan, C., hose and nozzle,	512 00
Cheever, C. H., use of horse, Hose 4,	78 00
Chesterton & Co., A. W., supplies,	7 20
Coyle, F. E., sundries,	10 76
Curry, R. H., stock and labor,	11 68
Davis express, expressage,	1 00
Decrow, W. E., two alarm boxes,	150 00
Deering & Co., J. P., lumber,	73 32
Dunton & Potter, printing,	29 00
Eastman's express, expressage and hay,	223 86
Edmunds Fire Ex. Co., extinguisher,	30 00
Edwards, Jos, stock and labor,	75 30
Edwards, Jos., three horse hitch,	75 00
Fells Ice Co., ice,	8 40
Forest fire pay roll,	196 00
Fowler, C. N., shades,	5 00
Gay & Co., A. R., record books,	11 00
Glazier, H. A., steel split rings,	1 50
Globe Towel Supply Co., towels,	1 00
Golden, J., labor on fire alarm,	5 00
Goodno, W. A., stock and labor,	75 25

Gordon, C. S., labor on fire alarm,	\$15 00
Goss, C. B. & F. H., fuel and hay, .	830 03
Holbrook & Norton, sundries, .	16 83
Howes, O. F., one dapple gray horse,	200 00
Kaulbeck, H., sheepskin,	25
Keating, P. S., use of horse, hose 2.	50 00
King & Co., E. & F., vitriol, . . .	82 57
Lane Bros., stock and labor, . . .	32 40
Langiell, W. D., repairs and harness	68 85
Larrabee & Stearns, sundries, . .	11 00
Lawrence, A. A., repairs, harness,	1 55
Lynde, A. W., labor of men,	9 50
Malden Electric Co., lights,	20 82
Malden & Melrose Gas Co., lights,	105 26
McCoubry, Thos., horse shoeing and smith work,	82 20
McCoubry, W. J., horse shoeing and smith work,	51 40
McCoubry, W. J., wheels and tire for steamer,	74 60
McDonald, Peter, labor on fire alarm,	34 75
McLeod, F. W., horse shoeing, . . .	2 50
Melrose, city of, street div., shovels,	3 25
Melrose club stable, horse and buggy,	37 00
Merchant's express, expressage, . .	25
Merrill, G. P., horse shoeing, . . .	10 50
Miller Smoke Protector Co., pro- tectors,	10 00
Newhall, Mrs. M., laundry,	26 00
N. E. Decorating Co., decorating four houses,	20 00
N. E. Telephone and Telegraph Co., rentals,	83 04
Perry, H. J., sundries,	14 75
Pettengell, Andrews Co., fire alarm supplies,	57 83

Philbrick & Son, A. J., sheets	
and pillow cases,	\$ 4 29
Ripley, C. A., pine and sawing,	1 65
Robertson, H. S., labor,	6 88
Singer, Jr., John, oil, etc.,	10 28
Stevens, Geo. M., fire alarm supplies	45 00
Stewart, W. H., labor, forest fire,	4 38
Stockwell, Mrs. E. K., laundry,	88 00
Stantial, T. B., labor,	3 00
Stoddard, V. H., oil,	5 09
Sturges, F. P., services,	14 00
Sulpho-Naphthol Co., disinfectants,	20 00
Sunman, C. W., repairing roof,	5 29
Twombly, A. J., expressage,	3 20
Tyzzar, F. H., paint and brushes,	3 60
Useful Novelty Co., salt bricks,	2 40
Whidden, R. H., fuses for fire alarm	5 00
Wiley & Co., I H., brushes and	
vitriol,	131 59
Williams, J. S., collars and springs,	6 68
Woodward, C. F., labor,	1 25
Wyoming Lodge trustees, rent	
hose No. 2,	212 00
Pay roll, engineers,	406 24
" " drivers,	4,311 77
" " steamer,	854 20
" " hook and ladder,	650 02
" " hose 2,	530 86
" " " 3,	416 69
" " " 4,	526 69

Total expended, \$12,513 78

Balance, 202 15

\$12,715 93

\$12,715 93

FOURTH OF JULY CELEBRATION.

Treasurer authorized to borrow, .	\$200 00	
Transferred from 50th anniversary,	414 00	
	<hr/>	\$614 00

EXPENDED

Bruce, F. E., use of two boats, .	\$5 00	
Deering & Co., J. P., lumber, .	2 12	
Granville, The, meals,	25 50	
Iver Johnson S. G. Co., balls, .	4 13	
Larrabee & Stearns, cigars, . .	6 50	
Masten & Wells Fireworks Mfg. Co., fireworks,	245 00	
Melrose Journal, printing, . . .	2 50	
Norris & Co., moving band stand,	12 00	
State military band, services, .	264 45	
Perry, H. J., wire,	48	
Pierce, W. L., posting posters, .	2 00	
	<hr/>	
Total expended	569 68	
Transferred to aldermen's contingent,	44 32	
	<hr/>	
	\$614 00	\$614 00

HEALTH DEPARTMENT.

Appropriations,	\$2,100 00	
Treasurer authorized to borrow, .	588 52	
Com. of Mass., expense contagious diseases,	20 50	
Plumbers' licenses,	21 20	
	<hr/>	\$2,730 22

EXPENDED.

Barker, J. T., salary inspector of plumbing,	\$696 67
Belknap & Co., dating stamp,	2 50
Benson & Co., fuel, S. E.,	14 18
Crane, C. C., M. D., professional services,	5 00
Crane, M. J., nursing,	68 43
Crescent drug store, medicine,	85
Cross, H. M. & L. W. "	2 10
Cross, S. T., fumigating,	2 00
Dalton, M. J., M. D., professional services,	11 40
Dole, W. H., fumigating,	4 00
Dunton & Potter, printing,	57 00
Eastman's express, expressage,	5 65
Fitzgerald, Mrs. R., nursing,	11 00
Frost & Hawes, groceries,	82 16
Gear, J. F., disinfectant and solution,	30 90
Harlow, C. W., M. D., vaccinations,	2 80
Harnden & Co., H. P., groceries,	3 17
Higgins, T. R., removing garbage,	1,300 00
" " " burying animals,	32 00
Holden, A. C., delivering sewer notices,	10 00
Holden, C. P., cash expenses,	21 21
Holden, J. W., milk,	10 78
Jefts, W. A., cot and bedding,	5 75
Kirmes, V. C., fumigating,	90 00
Larrabee & Stearns, medicine,	4 91
Leonard, Jr., E., expense of cultures,	4 00
Mass. association of board of health, annual dues,	4 50
McCullough, J. J., removing bodies from cemetery,	17 00
McLaughlin, F. M., salary, agent and expenses,	27 43

Melrose Journal, printing, . . .	\$61 50	
Provandie, P., M. D., professional services,	45 00	
Quincy, Josiah, H., services, . . .	20 00	
Raynes, M. B., M. D., professional services,	7 00	
Russell, F. E., board of nurse, . . .	21 00	
Schooff, Wm. J., medicine,	12 95	
Swan, C. H., examination of titles, . . .	10 38	
Warren, E. L., fumigating,	25 00	
	<hr/>	
Total expended,	\$2,730 22	\$2,730 22

INSURANCE.

Appropriation,	\$831 74	
Dividend and rebate on policy, . . .	22 57	
	<hr/>	\$854 31

EXPENDED.

Burke, G. W., premium,	\$67 50	
Burrell, W. A., "	78 75	
Buttrick, S. H., "	11 25	
Dearborn, G. H., "	15 00	
Gibson, D. E., "	45 00	
Goss, E. H., "	45 00	
Hatch, J. C., "	70 31	
Johnson, H. E., "	94 31	
Lovejoy, S. A , "	22 10	
Loveland, C. H., "	50 00	
Lord, E. R., "	56 25	
M'Coy, G. M., "	120 00	
Melchert, A. A., "	45 00	
Small & Co., E. S., "	45 00	
Swett, C. C., "	75 87	
	<hr/>	
Total expended,	\$841 34	
Balance,	12 97	
	<hr/>	
	\$854 31	\$854 31

INTEREST.

Balance from 1899,	\$3,707 11	
Appropriation,	26,000 00	
	<hr/>	\$29,707 11

RECEIPTS.

Melrose national bank, deposits,	\$651 98	
Sewer assessments,	2,510 89	
Tax titles,	60 84	
Taxes of 1898,	55 08	
Taxes of 1899,	3,797 92	
Taxes of 1900,	167 76	
	<hr/>	\$7,244 47
		<hr/>
		\$36,951 58

EXPENDED.

Melrose savings bank, notes, . .	\$1,681 60	
Sundry notes,	4,382 83	
Coupons, Central fire station, notes	800 00	
" town hall loan,	1,800 00	
" sewer "	14,200 00	
" school "	8,000 00	
" park " notes,	580 00	
	<hr/>	
Total expended	\$31,444 43	
Balance,	5,507 15	
	<hr/>	
	\$36,951 58	\$36,951 58

INSPECTOR OF BUILDINGS.

Transferred from general contin- gent	\$40 00
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AUDITOR'S REPORT.

EXPENDED

Dunton & Potter, printing, . . .	\$27 50	
	<hr/>	
Total expended,	27 50	
Balance,	12 50	
	<hr/>	<hr/>
	\$40 00	\$40 00

LOANS, PERMANENT.

Balance, Dec. 31, 1899,	\$73,000 00
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EXPENDED.

Paid sundry notes,	\$12,000 00	
Balance to 1901,	61,000 00	
	<hr/>	
	\$73,000 00	\$73,000 00

LOANS, TEMPORARY.

Balance, Dec. 31, 1899,	\$82,374 37	
Cash received for notes,	129,600 00	
	<hr/>	<hr/>
	\$211,974 37	\$211,974 37

EXPENDED.

Paid sundry notes,	\$147,374 37	
Balance to 1901,	64,600 00	
	<hr/>	<hr/>
	\$211,974 37	\$211,974 37

MELROSE HOSPITAL.

Balance from 1899,	\$250 00	
Appropriation,	833 33	
	<hr/>	<hr/>
		\$1,083 33

EXPENDED.

Melrose hospital, board and care,	\$1,083 33	
Total expended, . . .	\$1,083 33	\$1,083 33

MEMORIAL DAY.

Appropriation,	\$200 00	\$200 00
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EXPENDED.

Grant, U. S. Post 4, G. A. R., .	\$200 00	
Total expended,	\$200 00	\$200 00

MILITARY AID.

Appropriation,	\$300 00	
Treasurer authorized to borrow, .	45 00	
		\$345 00

EXPENDED.

Pay rolls,	\$451 00	
Transferred to soldiers' relief, .	42 71	
" " charity dept., .	42 71	
	\$536 42	
Less amount transferred to Commonwealth of Mass., . . .	246 71	
	\$289 71	
Balance to 1901,	55 29	
	\$345 00	\$345 00

OVERLAYS, ADDITIONALS AND ABATEMENTS.

Taxes of 1895.

Balance, Dec. 31, 1899,	\$3,133 89	
Abated in 1900,	15 40	
	<hr/>	
Balance,		\$3,118 49

Taxes of 1896.

Balance, Dec. 31, 1899,	\$2,147 46	
Abated in 1900,	101 96	
	<hr/>	
Balance,		\$2,045 50

Taxes of 1897.

Balance Dec. 31, 1899,	\$2,139 24	
Additional,	12 87	
	<hr/>	
	\$2,152 11	
Abated in 1900,	107 73	
	<hr/>	
Balance,		\$2,044 38

Taxes of 1898.

Balance, Dec. 31, 1899,	\$1,839 61	
Additional,	593 51	
	<hr/>	
	\$2,433 12	
Abated in 1900,	1,553 34	
	<hr/>	
		\$879 78

Taxes of 1899.

Balance Dec. 31, 1899,	\$1,728 38	
Additional,	1,627 29	
	<hr/>	
	\$3,355 67	
Abated in 1900,	2,901 88	
	<hr/>	
Balance,		\$453 79

Taxes of 1900.

Warrant,	\$9,540 04	
Additional,	1,956 40	
	<hr/>	
	\$11,496 44	
Abated in 1900,	3,483 95	
	<hr/>	
Balance,		\$8,012 49
		<hr/>
		\$16,554 43
Transfer to refunded taxes, . . .		323 67
		<hr/>
Balance to 1901,		\$16,230 76

POLICE DEPARTMENT.

Appropriation,	\$11,500 00	
Treasurer authorized to borrow, .	899 51	
Cash received, use of patrol wagon,	5 00	
Transferred from treasury, per		
order,	80 00	
	<hr/>	
		\$12,484 51

EXPENDED.

American Electric M'fg Co.,	
F. L. batteries,	\$ 2 10
Brock Bros., sundries,	2 80
Cummings, C. H., stock and labor,	5 98
Dunton & Potter, printing and	
sundries,	18 90
Eastman's express, expressage, .	1 00
Edwards, Jos., stock and labor,	
repairs,	28 09
Edwards, Jos., rubber tires, patrol	
wagon,	81 50
Edwards, Jos., democrat wagon, .	95 00
Evans & Co., D., buttons,	12 50

Frost & Hawes, oil and crackers, .	\$ 0 99	
Iver Johnson Sporting Goods Co.,		
twisters,	39	
Jones, E. A., directory,	2 00	
Kaulbeck, H., repairing check, .	40	
Kehoe, T., " desk,	3 00	
Lawrence, A. A., " harness . .	4 00	
McCoubry, T., horse shoeing, . .	11 75	
McCoubry, W. J., " "	4 50	
McLaughlin, F. M., cash expenses,	14 62	
Melrose club stable, board and		
care of horse,	274 00	
Morss, Wm., stock and labor,		
basement,	62 94	
N. E. Telephone & Telegraph Co.,		
rentals,	48 05	
Perry, H. J., brackets,	44	
Philbrick & Son, A. J., blanket, .	2 98	
Potter, S. G., diaries and envelopes,	8 35	
Sampson G. F., kalsomining lock		
up,	7 00	
Scott, J. A., top for patrol wagon,	50 00	
Tyzzer, F. H., painting two wagons,	35 00	
Warren Co., M. R., record books,		
etc.,	11 03	
Wing, C. J., salary keeper of lock-		
up and meals,	40 50	
Pay roll, chief's salary, 13 mos., .	1,083 32	
" " reg. officers and specials,	10,570 79	
Total expended,	\$12,483 92	
Balance,	59	
	<hr/>	
	\$12,484 51	\$12,484 51

PUBLIC LIBRARY.

Appropriation,	\$2,800 00	
Treasurer authorized to borrow, .	151 71	
County treasurer, dog tax, . . .	1,016 57	
	<hr/>	
		\$3,968 28

EXPENDED.

Books, Magazines, Etc.

Adams & Co., J. Q. A., . . .	\$ 15 00
Appleton & Co., D., . . .	69 00
Babb & Co., E. E., . . .	16 00
Barnes & Co., A. S., . . .	1 00
Bowker, R. R., . . .	3 50
Bowen Merrill Co., The, . .	10 00
Cheever, S. A., . . .	1 00
Clarke & Co., W. B., . . .	82 12
De Wolfe, Fiske & Co., . .	306 92
Eastern Pub. Co., . . .	1 76
Funk & Wagnalls Co., . . .	8 75
Harrison, Wm. B., . . .	60
Houghton, Mifflin & Co., . .	43 20
Little, Brown & Co., . . .	1 67
Lauriat Co., C. E., . . .	225 28
Mass. Historical Society, . .	6 00
Nash, E. B., . . .	165 50
N. E. Botanical Club, . . .	1 00
Ormsby & Co., F. E., . . .	75
Oxford University Press, . .	7 55
Pope, C. H., . . .	10 00
Small, W., . . .	49 97
	<hr/>
	\$1,026 57

Miscellaneous Bills.

Allstine, A. K., rebinding, . .	\$103 80
Ballard H. H., covers, . . .	7 15
Barnard & Co., F. J., rebinding, .	196 23
Dimond & Co., H. C. stamp, . .	5 00
Dunton & Potter, printing, . .	31 50
Eastman's express, expressing, .	14 60
Fells Ice Co., ice, . . .	5 00
Felkin, W. C., lettering window, .	13 50

Hammond Typewriter Co., re-	
pairs to machine,	\$31 50
Hood, Miss Louisa, service, .	43 75
Kelton E. C., care of books, High-	
lands,	5 00
Lovejoy, S. A., premium insurance,	108 00
Melrose Journal, printing, . .	50 00
Malden & Melrose Gas Light Co.,	
gas,	91 40
Nickerson, L., labor on awnings, .	3 00
Office, Bank & Library Co.,	
binders,	7 50
Page, H. S., repairs, electric lights,	1 50
Larrabee, J. S., janitor, . . .	100 00
White, Ethel, salary, assistant	
librarian,	112 50
Worthen, Carrie M., salary,	
librarian,	475 00
Worthen, Carrie M., salary, extra	
assistants,	139 50
Young Men's Christian Associa-	
tion, rent,	1,315 77
Young Men's Christian Associa-	
tion, decoration fiftieth anni-	
versary,	10 00
	<hr/>
	\$2,871 20

RECAPITULATION.

Books, magazines, etc., . . .	\$1,026 57	
Miscellaneous bills,	2,871 20	
	<hr/>	
Total expended,	\$3,897 77	
Balance,	70 51	
	<hr/>	
	\$3,968 28	\$3,968 28

SALARIES.

Balance,	\$733 89	
Appropriation,	10,000 00	
Treasurer authorized to borrow, .	1,144 04	
Transfer from general contingent,	204 17	
	<hr/>	\$12,082 10

EXPENDED.

Briry, W. S., inspector of milk, .	\$83 33
Buttrick, S. H., overseer of poor,	300 00
" " agent state and	
military aid,	100 00
Cochrane, C. W., registrar of voters,	50 00
Cragin, E. L., registrar of voters, .	50 00
Crolly, J. C., assessors' clerk, .	660 78
Dole, W. H., board of health, .	50 00
Edwards, J., assessor,	300 00
Franklin, A. B., overseer of poor,	43 75
Gould, E. C., auditor,	541 66
Gould, L. S., mayor,	500 00
Goodno, W. A., inspector of b'ld'gs,	354 12
Holden, C. P., M. D., board of	
health,	200 00
Howe, Sidney, assessors' clerk, .	197 11
Hunter, W. D., supt. of public	
works,	2,437 50
Jones, W. DeHaven, city clerk, .	1,300 00
" " " reg. of voters,	50 00
Kirmes, V. C., registrar of voters,	50 00
Lane, Addison, collector of taxes,	
1897,	179 06
Larrabee, John, treasurer, 11 mos.,	687 50
Lavender, W. R., " 1 mo.,	62 50
Leonard, H. A., assessor,	300 00
Murray, J. W., collector, 1899, .	989 50
Murray, J. W., collector, 1900, .	1,000 00
Newhall, Geo., treasurer, 1 mo., .	62 50

Pierce, W. L., sealer of weights and measures,	\$200 00	
Provandie, P. H., M. D., board of health,	50 00	
Stantial, Mrs. M. E., overseer of poor,	50 00	
Sturges, F. P., inspector of animals and provisions,	108 33	
Upham, F. R., assessor, . . .	300 00	
Washburn, F. L., solicitor, . . .	541 66	
	<hr/>	
	\$11,799 30	
Balance,	\$282 80	
	<hr/>	
	\$12,082 10	\$12,082 10

SCHOOL DEPARTMENT.

Appropriation,	\$77,000 00	
Treasurer authorized to borrow,	6,647 01	
Cash received, tuition, etc.,	1,176 08	
	<hr/>	
		\$84,823 09

EXPENDED.

(See school committee report.)

Advertising and printing,	\$ 361 70	
Books and supplies,	5,971 21	
Fuel,	7,060 08	
Furniture,	1,056 08	
Miscellaneous,	1,783 35	
Repairs,	2,727 35	
Salaries,	65,863 32	
	<hr/>	
Total expended,	\$84,823 09	\$84,823 09

SEWER ASSESSMENTS.

Total collection to Jan. 31, 1901 .		\$89,032 54
Transfer to sewer fund, vote of .		
town,	\$10,000	
Transfer to sinking fund com- .		
missioners, vote of town, .	40,000	
Transfer to interest account, .	2,510 89	
	<hr/>	
	\$52,510 89	
Balance to 1901,	36,521 65	
	<hr/>	
	\$89,032 54	\$89,032 54

SOLDIERS' BURIAL.

Churchill, Mr. & Mrs. F. T., un- dertakers' services,	\$35 00
Harvey, S. W., undertaker's ser- vices,	35 00
Walton & Son, Oliver, undertakers' services,	70 00
	<hr/>
Total expended,	\$140 00

SOLDIERS' RELIEF.

Appropriation,	\$1,250 00	
Treasurer authorized to borrow, .	90 50	
Cash refunded from cities and towns,	364 51	
Transferred from military aid, .	42 71	
	<hr/>	
		\$1,747 72

EXPENDED.

Allowance pay roll,	\$220 50
Allen, A. B., rent,	120 00

Bennett, G. E., rent,	\$ 8 00
Benson & Co., S. E., fuel, . . .	33 21
Bugbee & Barrett, groceries, . .	41 69
Campbell, H. F., rent,	24 00
Charity department, board, . . .	126 75
Cobb, J. W., rent,	24 00
Cross, H. M. & L. W., medicine, . .	6 55
Dunton & Potter, printing, . . .	2 50
Evans, Miss, nursing,	73 00
Fields & Co., H. G., boots and shoes,	13 75
Forrest J., milk,	12 70
Foster, J. T., groceries,	116 00
Freeman, L. T., teaming,	6 00
Frost & Hawes, groceries,	57 00
Goss, C. B. & F. H., fuel,	209 64
Gately J. H., undertaker's services,	35 00
Hancock, C. F., groceries,	17 58
Harvey, S. W., rent,	120 00
Hinckley, L. F., groceries,	75 00
Holden, C. P., M. D., professional services,	23 00
Joslin & Co., F. N., clothing, . . .	5 00
Keating, J. J., clothing,	15 09
Kenniston, R. J., nursing,	35 00
Keen, A. E., groceries,	8 50
Knollin, Wm., fuel,	3 40
Lander Post 5., G. A. R., aid fur- nished,	140 00
Larrabee & Stearns, medicine, . . .	7 25
Lynn, city of, aid furnished, . . .	12 00
Marshall, J., fuel,	16 88
McDonald, J. R., groceries,	88 00
Moody, F. O. & A. H., groceries,	2 50
Newell & Walker, fuel,	46 02
Newhall & Co., Geo., boots and shoes,	38 50
Pendleton, A. J., Mrs., rent, . . .	5 00
Philbrick & Son, A. J., dry goods,	15 50
Philpot, R., rent,	116 00

Quincy market, groceries, . . .	\$ 4 50	
Ripley, T. W., printing order book, . . .	5 00	
Schooff, W. J., medicine, . . .	33 55	
Sim, A. S., dry goods, . . .	4 06	
Small & Co., E. S., rent, . . .	168 00	
Stoddard, V. H., groceries, . . .	104 00	
Swett, C. C., rent, . . .	8 00	
Upham, F. R., rent, . . .	37 75	
Wells, W. H., groceries, . . .	92 20	
	<hr/>	
	\$2,377 87	
Less amount transferred to com- monwealth of Mass., . . .	98 00	
Amount overdrawn, . . .		\$532 15
	<hr/>	<hr/>
	\$2,279 87	\$2,279 87

STATE AID.

(Refunded by commonwealth.)

EXPENDED.

Pay rolls,	\$2,891 00
Total expended,	<hr/> \$2,891 00

STATE TAX.

To amount assessed,	\$6,645 00
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EXPENDED.

Treasurer commonwealth of Mass., . . .	<hr/> \$6,645 00
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STATE SEWERAGE TAX.

To amount assessed,	\$9,431 01
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EXPENDED.

Treasurer commonwealth of Mass., . . .	\$9,431 01
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SURETY BONDS.

Appropriation,		\$134 00
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EXPENDED.

Briry, Wm. S., premiums, . . .	\$134 00	
Total expended,	\$134 00	\$134 00

TAXES.

1895.

Balance uncollected, Jan. 1, 1900,	\$56 06
Abated in 1900,	15 40
	<hr/>
	\$40 66
Collected and paid treasurer, . .	9 12
	<hr/>
Balance uncollected, Jan. 31, 1901,	\$31 54

1896.

Balance uncollected, Jan. 1, 1900,	\$238 08
Abated in 1900,	101 96
	<hr/>
	\$136 12
Collected and paid treasurer, . .	29 41
	<hr/>
Balance uncollected, Jan. 31, 1901,	\$106 71

1897.

Balance uncollected, Jan. 1, 1900,	\$278 80
Additional in 1900,	12 87
	<hr/>
	\$291 67
Abated in 1900,	107 73
	<hr/>
	\$183 94

Collected and paid treasurer, .	\$39 55
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Balance uncollected, Jan. 31, 1901,	\$144 39
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1898.

Balance uncollected, Jan. 1, 1900,	\$22,262 23
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Additional in 1900,	593 51
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Interest,	55 08
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	\$2,910 82
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Abatements in 1900,	1,553 34
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	\$1,357 48
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Collected and paid treasurer, .	642 87
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Balance uncollected, Jan. 31, 1901,	\$714 61
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1899.

Balance uncollected, Jan. 1,	
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1900,	\$101,339 53
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Additional in 1900,	1,627 29
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Interest,	3,797 92
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	\$106,764 74
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Abated in 1900,	2,901 88
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	\$103,862 86
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Collected and paid treasurer,	99,936 31
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Balance uncollected, Jan. 31, 1901,	\$3,926 55
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1900.

Warrant,	\$237,310 57
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Additional,	1,956 40
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Interest,	167 76
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	\$239,434 73
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Abatements in 1900,	\$3,483 95
	<u>\$235,950 78</u>
Collected and paid treasurer, . .	131,214 55
	<u>131,214 55</u>
Balance uncollected, Jan. 31, 1901,	\$104,736 23

REFUNDED TAXES.

Transferred from overlay acct., . .	\$323 67
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EXPENDED.

DePeu, W. A., illegal assessment,		
1897-8,	\$19 84	
Welsh, Willard, illegal assessment,		
1892-6-7,	303 83	
	<u>303 83</u>	
Total expended,	\$323 67	\$323 67

TAX TITLE TAKINGS.

Paid collector, Jan., 1900,	\$2,249 04
" reg. of deeds, recording,	98 00
" collector, Jan., 1901,	2,341 28
" reg. of deeds, recording,	112 50
	<u>112 50</u>
Total expended,	\$4,800 82
Cash received, titles redeemed,	1,247 62
	<u>1,247 62</u>
Total amount unredeemed,	\$3,553 20

TRUST FUNDS, CEMETERY.

(Perpetual care of lots.)

Balance, Dec. 31, 1899,	\$5,212 50	
Receipts,	1,250 00	
	<u>1,250 00</u>	\$6,462 50
Balance to 1901,	\$6,462 50	\$6,462 50

E. TOOTHAKER FUND.

Balance from town of Melrose, . . .	\$809 78	
Cash balance of bequest, . . .	922 00	
	<hr/>	\$1,731 78

EXPENDED.

Benson & Co., S. E., fuel, . . .	\$8 12	
Bugbee & Barrett, groceries, . . .	2 50	
Cross, H. M. & L. W., medicines, . . .	1 50	
Eldridge, S. O., groceries, . . .	2 50	
Frost & Hawes, " . . .	18 00	
Goss, C. B. & F. H., fuel, . . .	24 81	
Henney, Mary, rent, . . .	38 00	
Hinckley, L. F., groceries, . . .	5 00	
Hobrook & Norton, " . . .	2 00	
Leonard, J. M., cash expenses, . . .	8 99	
Newhall & Co., boots and shoes, . . .	10 25	
Quincy market, groceries, . . .	3 00	
Small & Co., E. S., rent, . . .	25 00	
	<hr/>	
Total expended, . . .	\$149 67	
Balance, . . .	1,582 11	
	<hr/>	
	\$1,731 78	\$1,731 78

WATER BONDS.

Rec'd from sinking fund com'rs, . . .	\$10,000 00
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EXPENDED.

Bearer, 10 bonds, due July 1, 1900, . . .	\$10,000 00	
	<hr/>	
	\$10,000 00	\$10,000 00

PUBLIC WORKS DEPARTMENT.

CITY HALL.

Appropriation,	\$2,000 00	
Treasurer authorized to borrow, .	725 27	
Transfer from general contingent,	300 00	
	<hr/>	\$3,025 27

EXPENDED.

See superintendent of public works' report for details, .	\$2,984 30	
	<hr/>	
Total expense,	\$2,984 30	
Balance,	40 97	
	<hr/>	
	\$3,025 27	\$3,025 27

ENGINEERING OFFICE.

Appropriation,	\$3,000 00
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EXPENDED.

See supt. report for details, . . .	\$2,757 86	
	<hr/>	
Total expended,	2,757 86	
Transferred to surface drainage, .	37 14	
Balance,	205 00	
	<hr/>	
	\$3,000 00	\$3,000 00

HIGHWAY DIVISION.

Appropriation,	\$20,000 00	
Treasurer authorized to borrow, .	1,237 81	
Cash, L. & B. R. R., excise tax, .	1,485 93	
“ sundry collections,	285 14	
“ from sundry divisions,	467 06	
	<hr/>	\$23,475 94

EXPENDED.

See supt. of public works' report				
for detail,	\$22,887	80		
	<hr/>			
Total expended,	\$22,887	80		
Balance,	588	14		
	<hr/>			
	\$23,475	94	\$23,475	94

PARKS.

Appropriation,	\$400	00
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EXPENDED.

See supt. of public works' report				
for details,	\$281	72		
	<hr/>			
Total expended,	\$281	72		
Balance,	118	28		
	<hr/>			
	\$400	00	\$400	00

PUBLIC WORKS OFFICE.

Appropriation,	\$1,105	00		
Treasurer authorized to borrow, .	40	03		
Cash, refunded,	3	78		
	<hr/>			
			\$1,148	81

EXPENDED.

See Supt. of public works' report				
for detail,	\$1,136	21		
	<hr/>			
Total expended,	\$1,136	21		
Balance,	12	60		
	<hr/>			
	\$1,148	81	\$1,148	81

AUDITOR'S REPORT.

SEWER DIVISION.

Balance from 1899, . . .	\$3,303 86	
Cash, sundry collections, . . .	715 38	
“ unclaimed pay, . . .	1 22	
“ private sewers, . . .	5,820 43	
“ from sundry divisions, . . .	678 98	
	<hr/>	\$10,519 87

EXPENDED.

See supt. report for details, . . .	\$10,042 08	
	<hr/>	
Total expended, . . .	\$10,042 08	
Balance, . . .	477 79	
	<hr/>	
	\$10,519 87	\$10,519 87

SIDEWALKS DIVISION.

Appropriation, . . .	\$2,500 00	
Cash collections, . . .	267 64	
	<hr/>	\$2,767 64

EXPENDED.

See superintendent of public works' report for details, . . .	\$2,587 81	
	<hr/>	
Total expended, . . .	\$2,587 81	
Balance, . . .	179 83	
	<hr/>	
	\$2,767 64	\$2,767 64

STREET LIGHTS.

Appropriation, . . .	\$11,500 00	
Treasurer authorized to borrow, . . .	923 12	
	<hr/>	\$12,423 12

EXPENDED.

See superintendent of public works' report for details, .	\$12,397 50	
Total expended, . . .	\$12,397 50	
Balance,	25 62	
	<u>\$12,423 12</u>	<u>\$12,423 12</u>

STREET SPRINKLING.

Cash collections,	\$3,618 33	
Less overdrafts, 1899, . . .	1,183 79	
	<u></u>	<u>\$2,434 54</u>

EXPENDED.

See superintendent of public works' report for details, .	\$4,334 60	
Total expended, . . .	\$4,334 60	
Amount overdraft,		\$1,900 06
	<u>\$4,334 60</u>	<u>\$4,334 60</u>

SURFACE DRAINAGE.

Appropriation,	\$1,000 00	
Transferred from engineering div.,	37 14	\$1,037 14

EXPENDED.

See superintendent of public works' report for details, . . .	\$1,037 14	
Total expended,	\$1,037 14	\$1,037 14

WATER DIVISION.

Collections, water rates, etc., . . .	\$45,723 12	
Cash, from sundry divisions, . . .	439 42	
Collections, water rates, 1901, . . .	\$5,730 78	\$51,893 32

EXPENDED.

Metropolitan water loan sinking fund,	\$6,740 49	
Paid commonwealth, over allowance, 1899,	11 77	
Interest on water bonds,	9,580 00	
Bills for maintenance and construction, see supt. of public works' report for detail,	22,872 16	
	<hr/>	
Total expended,	\$36,204 42	
Transferred to treasury,	1,000 00	
Balance,	11,688 90	
	<hr/>	
	\$51,893 32	\$51,893 32

SCHEDULE OF CITY PROPERTY.

FIRE DEPARTMENT.

Central fire station, (on city hall lot),	\$20,000 00	
Personal property, steamer, schedule on file,	5,947 75	
Personal property, hook and ladder, schedule on file,	1,965 00	
	<hr/>	
		\$27,912 75

Hose No. 2.

Personal property, schedule on file,	1,474 35
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Hose No. 3.

Building,	\$1,200 00	
10,267 square feet land,	2,150 00	
Personal property, schedule on file,	1,238 45	
	<hr/>	\$4,588 45

Hose No. 4.

Building,	\$1,800 00	
5,625 square feet land,	400 00	
Personal property, schedule on file,	1,768 75	
	<hr/>	3,968 75
Fire alarm telegraph, schedule on file,		11,900 00
		<hr/>
		\$49,844 30

POLICE DEPARTMENT.

Personal property, schedule on file,	\$817 50
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POOR DEPARTMENT.

Personal property, schedule on file,	\$943 45
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PUBLIC LIBRARY.

Personal property, schedule on file,	\$12,000 00
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SCHOOL DEPARTMENT.

Converse school building and 21,017 square feet land,	\$6,050 00	
Personal property, schedule on file	129 00	
	<hr/>	\$6,179 00
Franklin school building and 21,752 square feet land,	\$35,450 00	
Personal property,	1,429 00	
	<hr/>	36,879 00

Gooch, D. W., school building and 27,815 square feet land, . . .	\$29,175 00	
Personal property,	1,298 00	
	<hr/>	\$30,473 00
High school building and 116,385 square feet land,	\$129,925 00	
Personal property,	9,765 00	
	<hr/>	139,690 00
Lincoln school building and 27,604 square feet land,	\$34,975 00	
Personal property,	1,377 00	
	<hr/>	36,352 00
Livermore, M. A., school building and 26,555 square feet land,	\$16,800 00	
Personal property,	748 00	
	<hr/>	17,548 00
Mann, Horace school building, and 26,361 square feet land,	\$24,475 00	
Personal property,	1,228 00	
	<hr/>	25,703 00
Ripley school building and 14,748 square feet land,	\$2,625 00	
Personal property,	59 00	
	<hr/>	2,684 00
Sewall school building and 14,567 square feet land,	\$15,150	
Personal property,	464 00	
	<hr/>	15,614 00
Warren, Joseph, school building and 18,572 square feet land,	\$18,000 00	
Personal property,	641 00	
	<hr/>	18,641 00
Washington school building and, 30,794 square feet land,	\$34,000 00	
Personal property,	1,446 00	
	<hr/>	35,446 00

West side kindergarten school building and 11,880 square feet land,		\$2,900 00
Whittier school building and 15,000 square feet land,	\$9,950 00	
Personal property,	282 00	
	<hr/>	10,232 00
Winthrop school building and 26,544 square feet land,	\$12,325 00	
Personal property,	629 00	
	<hr/>	12,954 00
	<hr/>	
Total		\$391,295 00

SUNDRIES.

Old school building Green street, and 24,500 square feet land,	\$3,450 00	
Old school building Chestnut street and 12,000 square feet land,	3,800 00	
Old school building Upham street, and 11,400 square feet land,	1,775 00	
	<hr/>	\$9,025 00

WYOMING CEMETERY.

Buildings,	\$2,600 00	
47 $\frac{3}{4}$ acres of land,	30,000 00	
Personal property,	233 00	
Water supply system,	900 00	
	<hr/>	\$33,733 00

PUBLIC WORKS DEPARTMENT.

City hall building,	\$65,000 00	
44,934 square feet land,	28,675 00	
Furniture, fixtures and sundries, schedule on file,	6,588 00	
	<hr/>	\$100,263 00

HIGHWAY DIVISION.

Crusher lot, Maple street, 49,015	
square feet of land,	\$1,000 00
Crusher lot, Linwood avenue,	
132,877 square feet land,	3,200 00
Stone crusher plant, tools, etc.,	4,800 00
Road rollers, scrapers, plows, etc.,	3,217 00
Horses, carts, harnesses and tools,	1,050 00
Stock,	727 00
	<hr/>
	\$13,994 00

PUBLIC PARKS.

Ell pond park,	\$15,000 00
Emerson street, corner Lake ave-	
nue, 30,300 feet,	9,100 00
Melrose common, 4 35-100 acres,	10,000 00
Sewalls Woods park, 9 acres and	
10,000 feet,	11,250 00
Strip east side Ell pond,	1,000 00
Triangle lot Main and Green,	
5,000 feet,	500 00
Triangle lot Main and Lynde,	
5,000 feet,	1,250 00
Settees,	25 00
	<hr/>
	\$48,125 00

SEWER DIVISION.

Sewer system, cost of construction,	\$362,590 03
Personal property,	7,281 00
	<hr/>
	\$369,871 03

WATER DIVISION.

Water system, cost of construction,	\$422,373 29
Personal property,	9,925 00
	<hr/>
	\$432,298 29

RECAPITULATION.

Fire department,	\$49,844 30
Police "	817 50
Poor "	943 45
Public library,	12,000 00
School department,	391,295 00
Sundries,	9,025 00
Wyoming cemetery,	33,733 00
City hall,	100,263 00
Highways,	13,994 00
Parks,	48,125 00
Sewer division,	369,871 03
Water "	432,298 29
	<hr/>
	\$1,462,209 57

APPROPRIATIONS FOR 1900.

APPROPRIATION ORDERS TO BE ASSESSED IN THE TAXES.

SPECIAL ORDERS.

Aldermanic chamber, alterations,	\$300 00
" " desks and	
chairs,	490 00
Aldermanic, contingent,	525 00
Claims,	168 34
50th anniversary of town,	500 00
Surface drainage,	1,000 00
	<hr/>
	\$2,983 34

BUDGET.

City hall,	\$2,000 00
Contingent, general,	2,500 00
" assessors,	600 00
" city clerk, \$300 from	
fees,	200 00

Contingent, collector's,	\$600 00
Engineering department,	3,000 00
Fire department,	11,500 00
Health "	2,100 00
Highways,	20,000 00
Insurance,	831 74
Interest with balance paid from over due taxes,	26,000 00
Melrose hospital,	833 33
Memorial day,	200 00
Military aid,	300 00
Park department,	400 00
Police "	11,500 00
Poor "	8,000 00
Public library,	2,800 00
Public works office,	1,105 00
Salaries,	10,000 00
School,	77,000 00
Sewer construction, \$8,525 from receipts and balance.	
Sidewalks,	2,500 00
Soldiers' relief,	1,250 00
Street lights,	11,500 00
Street sprinkling,	
Surety bonds,	134 00
Water department, \$22,000 from receipts.	
Reduction of city debt from bank and corporation tax.	

————— \$196,854 07

WARRANTS.

County tax,	\$11,857 11
State tax,	6,645 00
" Metropolitan sewer tax, sinking fund,	\$1,493 63
State Metropolitan sewer tax, in- terest,	4,859 38

State Metropolitan sewer tax,		
maintenance,	\$3,078 00	
	<hr/>	\$9,431 01
Overlayings, including Met. park,		9,540 04
		<hr/>
Total amount assessed on property, 1900,		\$237,310 57

After the annual appropriations had been made, the following appropriations were made and provided for by loans.

ON ACCOUNT OF JANUARY, 1900, EXPENSES.

Contingent, general,	\$118 90	
" assessors,	10 00	
" city clerk,	78 60	
City hall,	125 27	
Fire department,	735 93	
Health department,	163 52	
Highways,	1,237 81	
Military aid,	45 00	
Police department,	899 51	
Poor department,	322 01	
Public library,	151 71	
Public works office,	40 03	
Salaries,	1,144 04	
Schools,	6,647 01	
Soldiers' relief,	90 50	
Street lights,	923 12	
	<hr/>	\$12,732 96

Additional appropriations have been made and provided for by loans.

City clerk's office, clerical assistance,	\$600 00
Fourth of July celebration,	200 00
Aldermanic contingent,	100 00
Aldermanic contingent, city charter and ordinances,	148 00

City hall contingent,	\$600 00	
Contingent, general,	600 00	
Fire department, new hose, . .	480 00	
Health "	425 00	
	<hr/>	\$3,153 00
Total appropriations,		\$253,196 53

During the year transfers in appropriations have been made as follows:

From aldermanic contingent to treasury, . . .	\$200 00
" general contingent to city hall, . . .	300 00
" " " salaries, . . .	204 17
" " " to inspector of buildings, . . .	40 00
" " " collectors, . . .	300 00
" treasury to aldermanic chamber, . . .	200 00
" 50th anniversary to 4th of July celebration, . .	414 00
" 4th of July to aldermanic contingent, . .	44 32
" treasury to claims, . . .	31 88
" " " city clerk's contingent, . . .	217 40
" " " police, . . .	80 00
" " " contingent, general, . . .	20 35
" " " permanent debt, . . .	12,000 00
" engineering dept. to surface drainage, . .	37 14
" contingent, general, to assessors' contingent, . .	58 65
" water division to treasury, . . .	1,000 00

Report of the Sealer of Weights and Measures.

To the Honorable Board of Aldermen, City of Melrose :

In compliance with the requirements of the vote passed at your last meeting, I herewith submit the annual report of the sealer of weights and measures department.

EXPENSES

Salary from Jan. 1, 1900 to Feb. 1, 1901.	\$216 67
1 set hook weights,	2 85
1 small bench drill and set of drills,	3 40
1 large monkey wrench,	45
1 large hammer,	1 10
Resetting diamond pencil,	1 00
1 set of seals,	2 60
4 rubber stamps.	80
Printing and advertising,	10 25
Express,	55

Total expenses from Jan. 1, 1900 to Feb. 1, 1901, \$239 67

Section 1 of chapter 123 of the acts of 1876 provides that the sealer of weights and measures shall annually give public notice, by advertisement or by posting notices in one or more public places, to all inhabitants or persons having a usual place of business therein, who use scales, weights or measures for the purpose of selling any goods, wares merchandise or other commodities, or for public weighing, to bring in their scales, weights and measures to be adjusted and sealed.

The same section also provides that "in those cities and towns where a salary is paid to the sealer of weights and measures no fees shall be charged for such services."

In compliance with the provisions of the foregoing section, it is customary for the sealer to notify annually, in May, all such persons as are referred to by the statutes, by publishing the required notice in the papers, to bring to this office their scales, weights and measures to be tested and sealed.

Section 2 of chapter 123 of the acts of 1876, amended by section 2 of chapter 151 of the acts of 1877, provides that at any time after said notice, the said sealer of weights and measures shall go to the houses, stores and shops of persons mentioned in the foregoing section, who have neglected to comply with the notice given thereunder, and having entered

the same, with the assent of the occupants, shall adjust and seal their scales, weights and measures, and shall be entitled to receive for said service the compensation set forth in chapter 51, section 14 of the general statutes.

The customary notice having been published, after a reasonable time places were visited where scales, weights and measures were in use ; and having informed the owners thereof that it was optional with them whether their scales, etc., should be tested at this office or at their places of business, and in the former case no charge would be made for such services, proceeded thereafter, with their consent, to test and seal the same.

The schedule of fees for work done outside the office is as follows :

FOR TESTING.

Platform scales, (5,000 lbs. capacity and upwards),	\$1 00
“ “ (less than 5,000 lbs. capacity), .	50
Dormant “ (“ “ “ “ “), .	50
Beam “ (capacity over 1,000 lbs.), . .	50
Counter platform scales, (large size), . . .	50
“ “ “ (small size), . . .	25
Butcher's scales, spring balance, counter balance	
or trip scale,	03
Weights, each,	03
Measures, wet or dry each,	03
Yardsticks, each,	03

ADJUSTING.

For adjusting or repairing any scale, a fair and reasonable compensation.

For weights when either light or heavy, not to exceed ten cents each.

For yardsticks, not to exceed five cents each.

For measures, wet or dry, when either large or small, not to exceed ten cents each.

For adjusting or repairing any special weight or measure, not mentioned above, a fair and reasonable compensation.

OPERATIONS OF THE DEPARTMENT FROM
JAN. 1, 1900, TO FEB. 1, 1901.

Number of scales 5000 lbs. to 150 tons tested, . . .	4
“ “ dormants less than 5000 lbs., . . .	3
“ “ portable platforms tested, . . .	33
“ “ counter “ “ . . .	12
“ “ spring balances “ . . .	53
“ “ trip scales “ . . .	7
“ “ counter balances, “ . . .	64
<hr/>	
Total number of scales tested, . . .	176
Number of scales tested and found correct, . . .	166
“ “ “ “ “ adjusted before sealing, . . .	6
“ “ “ that were condemned, . . .	4
<hr/>	
Total number of scales tested, . . .	176
Number of weights tested and found correct, . . .	511
“ “ “ “ “ “ light and adjusted, . . .	24
“ “ “ “ “ “ heavy and adjusted, . . .	15
<hr/>	
Total number of weights tested, . . .	550
Number of dry measures tested and found correct, . . .	148
<hr/>	
Total number of dry measures tested, . . .	148
Number of wet measures, including glass milk jars and cans, tested and found correct, . . .	2,969
Number of wet measures, including glass milk jars, tested and condemned, . . .	41
<hr/>	
Total number of wet measures tested, . . .	3,010
Number of yardsticks tested and found correct, . . .	8
<hr/>	
Total number of yardsticks tested, . . .	8

The system of testing and sealing at their places of business gives general satisfaction. Many, however, object to the charges, and send their scales, etc., to this office, and in this way the following work has been done, which is included in the "operations of the department," and for which no fees are allowed.

THE AMOUNT OF WORK DONE IN THE OFFICE FROM
JAN. 1, 1900, TO FEB. 1, 1901.

Scales of all descriptions tested,	13
Weights tested,	34
Dry measures tested,	22
Wet measures, including milk cans, tested,	2,890
Yardsticks,	5
<hr/>	
Total pieces tested in the office,	2,964

EARNINGS OF DEPARTMENT.

Total amount of earnings from Jan. 1, 1900, to Feb. 1, 1901,	\$59 61
The amount uncollected due department,	3 20
<hr/>	
Balance paid to city treasurer,	\$56 41
Unpaid bills of previous financial year paid to treasurer,	7 02
<hr/>	
Total amount collected, which has been paid to the city treasurer to be credited to the de- partment of weights and measures, from Jan. 1, 1900, to Feb. 1, 1901,	\$63 43

If fees had been collected on work done in the office during the year as on work done outside, the revenue would have been increased \$89.39.

INVENTORY OF PROPERTY IN THE SEALER'S OFFICE BELONG-
ING TO THE CITY OF MELROSE, FEB. 1ST, 1901.

- 1 balance and cabinet furnished by the commonwealth to
Middlesex county in the custody of the Melrose sealer,
capacity, 100 lbs.
- 1 set try scales,
- 1 set brass weights,
- 10 50 lbs. weights,
- 1 set hook weights,
- 2 iron weights,
- 1 set wet measures, (copper),
- 1 " dry " "
- 1 bench drill and vise,
- 1 small bench drill and set of drills,
- 1 anvil,
- 3 hammers,
- 2 monkey wrenches, (large and small),
- 2 screw drivers, (large & small) 1 pr. nippers,
- 2 wire cutters, 1 cold chisel,
- 3 nail sets, 1 punch,
- 1 wooden mallet, 1 yard stick,
- 1 diamond pencil, 1 set stencils,
- 1 tool box, 1 set of seals,
- 4 rubber stamps, 1 branding seal,
- Rope and hook, Chairs, benches, sink, etc.

Respectfully submitted,

WILLIAM L. PIERCE,
Sealer of Weights and Measures.

Melrose, Mass., April 15th, 1901.

Soldiers' Relief, State and Military Aid Report.

March 30, 1901.

The Honorable Board of Aldermen, City of Melrose :

GENTLEMEN :—I herewith respectfully submit my report, as agent for the disbursement of soldiers' relief, state and military aid, under the direction of your committee for the year ending Jan. 31, 1901. Soldiers' relief has been given to twenty-six families, to the amount of \$2,287.37.

Cash,	\$355 50
Fuel,	309 15
Food,	564 47
Rent,	612 75
Shoes,	52 25
Medicine,	47 35
Med. aid,	23 00
Nursing,	108 00
Clothing,	39 65
Burial,	35 00
Board of insane,	126 75
Sundries,	13 50
	<hr/>
	\$2,287 37

There have been aided from state aid 61 soldiers of the civil war, their wives or widows, to the amount of \$2,676.00, and from the military aid, aid has been granted 7 soldiers of the civil war, amounting to \$493.42.

The sum totals expended by the agent has been:

Soldiers' relief,	\$2,287 37
State aid,	2,676 00
Military aid,	493 42
	<hr/>
	\$5,456 79

The soldiers' relief is paid out of the city treasury to those having a residence here.

The state aid is refunded by the state.

The military aid, one half the expense is borne by the city.

SIDNEY H. BUTTRICK, Agent.

Report of the Overseers of the Poor.

To His Honor the Mayor and Board of Aldermen of the City of Melrose:

GENTLEMEN: The overseers of the poor respectfully submit the following report of the year ending Jan. 31, 1901:

There have been aided by the charity department during the year 286 persons, 243 receiving partial support, and 43 full support; there were 62 families, consisting of 98 adults and 145 children; of the fully supported 23 were insane, 19 sane, and one feeble minded; 199 have settlement in Melrose, 87 are settled elsewhere; of these 23 were in insane hospitals, one at the Baldwinsville hospital for children, 14 at the Pratt farm, and five in private families.

The expenses of the department have increased largely this year, on account of the lack of work throughout the city, the temporary shut down of the rubber factory, and the quarantining of families where there were cases of contagious disease, thus depriving those who were able, of the opportunity to work.

FINANCIAL STATEMENT.

RECEIPTS AND REIMBURSEMENTS.

Appropriation,	\$8,000 00
Commonwealth of Massachusetts, refund,	348 48
Cities and towns, refund, . . .	585 56
Individuals, "	715 10
From sale of produce at Pratt farm,	327 82
	<hr/>
	\$9,976 96

EXPENDITURES.

Temporary aid,	\$5,131 31	
Insane, ,	3,563 68	
Baldwinsville hospital,	169 46	
Burial,	63 00	
Cities and towns on our account,	429 45	
Miscellaneous expenses,	104 55	
Pratt farm,	1,703 41	
Permanent improvements at farm,	500 19	
Cows, horse, etc.	315 00	
Amount overdrawn,		\$2,003 09
	<hr/>	<hr/>
	\$11,980 05	\$11,980 05
Amount overdrawn,	\$2,003 09	
Bills due and collect- able,	1,206 50	
	<hr/>	
Actual deficit,	\$796 59	

PRATT FARM.

Gross expense,		\$2,518 60
Less for permanent improvement,	\$500 19	
" " cows and horse,	315 00	
Cr. by sale of produce,	327 82	
" " wood delivered to poor,	21 29	
" " " " " soldiers' relief,	13 40	
Cr. by milk delivered to poor,	8 40	
	<hr/>	<hr/>
		1,186 10
Net cost of support,		\$1,332 50
Average cost per inmate per week, \$2.85.		

The Pratt farm has been of unusual care to the board during the past year. The year opened with the severe illness of the matron, Mrs. Emma A. Bonett, which terminated in

her death on March 31st, 1900. The overseers of the poor desire to place on record their appreciation of the very efficient service she rendered to the town and city while acting as matron at the farm, and we recognize that those who were under her care lost a faithful friend. The position of matron is always difficult to fill, but after several efforts and disappointments, we at last succeeded in securing the services of Mrs. Christie Chandler, who has proved herself exceedingly capable in performing the duties assigned to her, and every part of the farm shows her efficient management, and the inmates find in her a true and kind hearted friend.

The house has been greatly improved, and there has been added a new dining room for the inmates, a much needed pantry and large ice-chest; on the second story over the new dining room, three bed rooms have been fitted up and furnished. There should be added in the immediate future, a suitable room for men's sitting room on the first floor, and also provision made to better accommodate those who may be sick, and who are not eligible to the care of the Melrose hospital.

The farm has been cultivated to produce the most at the least expense, we have added during the year a horse and four cows, making seven cows now at the farm, the demand for milk is increasing, and we are able to sell all we can produce besides furnishing the home with all it can use. Those who are in constant touch with the workings of the Pratt farm are more and more convinced of the wisdom of the town in establishing this home for our worthy poor, and the board cordially and earnestly invite our citizens to carefully look into the work accomplished, the manner in which it is done and the results obtained.

There have been raised on the farm, from June, 1900, to Feb. 1, 1901:

6,977 $\frac{1}{2}$ quarts of milk.

7 tons hay.

4 tons fodder.

11 bushels apples.

6 pecks peas.

158 squashes.

15 bushels string beans.
 32 boxes sweet corn.
 13 bushels shell beans.
 20½ barrels potatoes.
 2,265 cabbages.
 15 barrels turnips.
 3 barrels beets.
 2 barrels carrots.
 50 winter squashes.
 20½ bushels tomatoes.
 6 bushels white beans.
 147 barrels wood, split and delivered.

SCHEDULE OF PROPERTY OF CITY OF MELROSE AT PRATT FARM.

1 horse.	2 potato forks.
7 cows.	1 rooster.
13 hens.	3 hand rakes.
1 farm wagon.	2 scythes.
1 express wagon.	3 shovels.
1 democrat.	1 spade.
2 plows.	1 sledge-hammer.
1 tooth harrow.	1 crow-bar.
1 cultivator.	3 axes.
1 pung.	3 hay forks.
1 hand-drag rake.	3 dung forks.
2 complete harness.	1 pick axe.
3 hoes.	1 pair double reins.
1 shove hoe.	

SIDNEY H. BUTTRICK,
 Chairman Overseers of the Poor

MELROSE, MASS., April 1, 1901.

To His Honor the Mayor and Board of Aldermen.

GENTLEMEN:—The overseers of the poor having in charge the disbursement of the Eleanor Brown Toothaker fund, respectfully submit the following report.

A clause in the will of Eleanor Brown Toothaker, who died at Melrose, March 2, 1893, reads as follows:

"The remainder I give and bequeath to the Town of Melrose, for the needy poor of the Town, to be distributed in small sums from time to time as the proper officers may deem expedient therefor."

At an adjourned town meeting of the voters of Melrose held March 26, 1896, the following vote was passed:

Voted, That the town express its appreciation of the bequest of Eleanor Brown Toothaker, by rising, and that the thousand dollars (\$1,000) received, and all money which shall be hereafter received under her will, constitute and be named "The Eleanor Brown Toothaker Fund," to be kept separate from the poor department appropriation, and that the same be expended, with any income which may be received on the same, for the needy poor of this town by the overseers of the poor, as provided in her will. In accordance with the terms of the will and the above vote, the overseers of the poor have dispensed aid to eleven families, in sums amounting to \$149.67.

The condition of the fund at present is as follows.

Jan. 1st, 1900, balance,	.	.	.	\$809 78
" 17 " cash from executor,	.	.	.	922 00
Jan. 3rd, 1901, cash expended,	.	.	.	\$149 67
Balance to credit,	.	.	.	1,582 11
				<hr/>
				\$1,731 78 \$1,731 78

This fund is in the general treasury fund of the city, and the treasurer allows 4 per cent. interest, which is annually added to the principal.

SIDNEY H. BUTTRICK,
Chairman.

Report of the Cemetery Committee.

To the Honorable the Mayor and Board of Aldermen:

GENTLEMEN: We submit herewith our report for the year ending December 31, 1900.

The expenses for the year have been as follows:

For labor, as per pay rolls,	\$2,193 37	
Superintendent, salary, one year,.	780 00	
For teams,	113 88	
	<hr/>	\$3,087 25
For material, etc.:		
Cement and lime,	\$39 80	
New bier,	6 00	
Canvas cover,	14 25	
Plants,	29 25	
Freight and teaming,	74 37	
Hardware and tools,	74 58	
Insurance on building,	7 50	
Manure,	12 75	
Printing, stamps, etc.,	40 55	
Pump and fittings,	19 55	
Locks and keys for tomb,	3 50	
Shrubs,	46 72	
Slate vaults,	82 24	
Sods,	20 62	
Loam,	7 20	
Surveys and plans,	16 00	
Sundries,	21 15	
	<hr/>	\$516 03

For permanent improvement:

Grading lots, contract,	\$800 00	
Extra labor and material,	132 15	
	<hr/>	\$932 15
Lumber,		10 80
Express,		14 76
Drain pipe,		103 32
Catch basins for gutters,		14 58
Water pipe and fitting,		237 57
Signs, rods, etc.,		68 81
Furniture for office,		30 30
		<hr/>
		\$1,412 29
		<hr/>
		\$5,015 57

RECAPITULATION.

Labor, supt. and teams,	\$3,087 25	
Material, etc.,	516 03	
Permanent improvements,	1,412 29	\$5,015 57

CASH RECEIVED.

For and on account of:

Lots sold,	\$1,789 00	
Interments,	621 00	
Single graves,	155 00	
Care of lots,	1,279 21	
Foundations,	254 25	
Labor,	166 25	
Slate vaults,	40 00	
Dressing,	18 00	
Use of tomb,	25 00	
Wood sold,	42 25	
	<hr/>	\$4,389 96
Expenditures more than receipts,	625 61	
	<hr/>	\$5,015 57

Sums due: On account of lots sold, .	\$359 00	
On account of care of lots,	249 00	
	<hr/>	\$608 00
Total amount expended to Dec. 31, 1899, including original purchase of land, and also that of the Pratt farm,		\$77,426 03
Expended, 1900,		5,015 57
		<hr/>
		\$82,441 60

RECEIPTS.

From all sources, to Dec. 31, 1899, .	\$69,971 52
Received, 1900,	4,389 96
	<hr/>
	\$74,361 48

Twenty-two lots have been sold and one hundred and forty-six interments made during the year. Nearly one third of the amount expended has been for permanent improvements, filling in and making lots, building streets, etc., which has added to the general appearance and improvement of the cemetery, and also furnished about forty desirable lots now for sale.

The water pipe has been extended eight hundred feet to the southerly portion, and the street signs have been repainted and replaced.

The office building, erected last year, has been furnished, and is of great convenience as a waiting-room and for the use of the superintendent.

PERPETUAL CARE OF LOTS.

In compliance with a vote of the town and with city ordinance, the sum of \$6,462.50, has been deposited by owners of lots with the treasurer for the perpetual care of sixty-five lots.

In many cemeteries lots are sold at a price sufficiently high to enable the municipality to guarantee perpetual care,

a certain portion being reserved for single graves at a less price. Your committee have not considered it wise to propose new rules or regulations regarding the matter, as the time is not far distant when it will become necessary to enter upon the Pratt farm, which was purchased by the town for cemetery purposes. We now have about seventy-five lots for sale, more than that number cannot be economically prepared for use.

We have endeavored to utilize all the land contained in the original purchase of land, realizing that the entrance upon the Pratt farm would entail considerable expense for streets, grading, etc.

Respectfully submitted,

JOHN LARRABEE,
JOHN P. DEERING,
JULIAN C. WOODMAN,

Cemetery Committee.

CITY CLERK'S REPORT.

MELROSE, MASS., MAY 1, 1901.

To the Honorable Board of Aldermen:

GENTLEMEN: I have the honor to transmit herewith the annual report of the receipts of the city clerk's department, the same being for the municipal year ending January 31, 1901, the payment of the same to the proper authorities, the vital statistics of the city of Melrose for 1900, with the assessed polls and voters.

Respectfully yours,

W. DEHAVEN JONES,
City Clerk.

RECEIPTS.

Marriage intentions,	103	@	50 cts.,	\$51 50	
Cemetery deeds,	43	"	25 "	10 75	
Auctioneers' licenses,	13	"	\$2 00	26 00	
Carriage	"	12	" 1 00	12 00	
Drivers'	"	10	" 1 00	10 00	
Entertainments	"	34	" 1 00	34 00	
"	"	1	" 50	50	
Hand organs	"	9	" 1 00	9 00	
Fireworks	"	13	" 2 00	26 00	
Bill posters	"	1	" 10 00	10 00	
Express	"	1	" 1 00	1 00	
Junk	"	1	" 10 00	10 00	
Junk	" 1/2 yr.	1	" 5 00	5 00	
Mortgages,	112	"	75	84 00	
Sales, transfers, releases,	25	"	25	6 25	
					<hr/>
					\$296 00
Paid treasurer,					\$296 00

DOGS.

450 males licensed	@	\$2 00 each,	\$900 00	
49 Females	"	5 00 "	245 00	
10 " (spayed)	"	2 00 "	20 00	
1 breeder's license,		25 00 "	25 00	
				<hr/>
510			\$1,190 00	
Less 510 licenses,	@	20 cts. each,	102 00	
				<hr/>
				\$1,088 00
Paid county treasurer,				\$1,088 00

BIRTHS.

Whole number recorded in 1900,	.	.	281
Decrease of two from last year.			
Number of males born,	.	.	143
" " females "	.	.	138
			<hr/>
" " twin births,	.	.	1
			281

MARRIAGES.

Number of intentions filed,		96
Both parties residents of Melrose, .	40	
But one party a resident of Melrose, .	54	
Neither party " " " " .	2	
	—	96
Number of marriages recorded, .		106
Both parties residents of Melrose, .	37	
But one party a resident of Melrose, .	53	
Neither party a resident of Melrose, .	16	
	—	106
First marriage of,	181	
Second marriage of,	25	
Third marriage of,	6	
	—	212
Age of oldest groom,	67	
Age of youngest groom,	18	
" " oldest bride,	60	
" " youngest bride,	16	

DEATHS.

Number of deaths for 1900,	211	
" " " of males,	114	
" " " " females,	97	
	—	211
Number of deaths of persons:		
Under 1 year of age,	44	
From 1 to 5 years,	11	
" 5 " 10 "	1	
" 10 " 20 "	11	
" 20 " 30 "	18	
" 30 " 40 "	13	
" 40 " 50 "	13	
" 50 " 60 "	19	
" 60 " 70 "	32	
" 70 " 80 "	31	

From 80 to 90 years, 17
 " over 90 " 1

211

Oldest male, 88 years, 5 months and 18 days.

" female, 91 " 10 " 10 "

Burial permits issued, 211

ASSESSED POLLS AND VOTERS.

	Polls.	Males.	Voted.	Females.	Voted.
Ward 1	444	376	300	15	4
Ward 2	590	422	321	59	2
Ward 3	560	408	323	27	2
Ward 4	411	339	293	76	6
Ward 5	471	322	250	59	1
Ward 6	626	451	395	42	1
Ward 7	548	346	266	51	0
Totals,	3,650	2,664	2,148	329	16

The following is a statement of the votes cast in the several wards of the city, Nov. 6, for the candidates of the different parties for elector (the one first named on each ticket) of President and Vice-President of the United States:

Candidate and Party.	Wards							Totals.
	1	2	3	4	5	6	7	
Thomas Wentworth Higginson, Democratic,	54	64	87	46	74	85	88	498
Charles S. Gieves, Dem. Social,	3	3	1	1	2	0	4	14
Patrick O'Keiffe, Socialist Labor, ...	0	0	0	0	0	1	0	1
Roger Wolcott, Republican,	264	251	228	218	175	248	162	1546
Edward Kendall, Prohibition,	8	9	4	7	3	6	4	41
E. Waldo Emerson,	0	2	2	3	1	0	1	9
Blanks,	7	16	18	17	10	22	23	113
Whole number of ballots,	336	345	340	292	265	362	282	2222

The following is a statement of the votes cast in the several wards of the city, Nov. 6, for Governor of the Commonwealth:

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
Michael T. Berry, Socialist Labor, ..	0	5	1	1	4	3	4	18
Charles H. Bradley, Dem. Social,	1	3	2	2	2	1	3	14
W. Murray Crane, Republican,	275	253	226	240	172	262	162	1590
John M. Fisher, Prohibition,	5	5	4	1	4	3	2	24
Robert Treat Paine, 2nd, Dem.	39	42	72	26	58	58	69	364
Blanks,	16	36	33	20	25	38	44	212
Whole number of ballots,	336	344	338	290	265	365	284	2222

The following is a statement of the votes cast in the several wards of the city, Dec. 11, for mayor, alderman-at-large, school committee and ward aidermen:

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
Sidney H. Buttrick, Municipal League Nomination paper,	177	145	166	160	117	164	111	1040
John Larrabee, Republican, Citizens' Nomination paper,	121	174	154	131	132	227	150	1089
Blanks,	2	2	3	2	1	4	5	19
Whole number of ballots,	300	321	323	293	250	395	266	2148

ALDERMEN-AT-LARGE.

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
William A. Carrie, R. M. L. N. paper,	235	210	214	204	185	234	153	1435
Maurice G. Cochrane, M. L. N. paper, ..	151	178	151	159	120	148	104	1011
M. Frank Eastman, M. L. N. paper,	165	163	192	197	144	232	138	1231
Eugene H. Moore, Republican,	125	181	168	121	102	227	156	1080
George L. Morse, Republican,	81	86	139	123	112	189	115	845
Blanks,	143	145	105	75	87	155	132	842
Whole number of ballots,	900	963	969	879	750	1185	798	6444

SCHOOL COMMITTEE, Three Years.

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
Bessie B. Dearborn, R. M. L. N. paper,	238	251	249	251	206	290	185	1670
Edward B. Marsh, R. M. L. N. paper,	232	241	237	244	194	276	186	1610
Fred L. Wood, R. M. L. N. paper, ..	234	239	235	247	192	291	174	1612
Blanks,	208	238	254	155	161	331	253	1600
Whole number of ballots,	912	969	975	897	753	1188	798	6492

SCHOOL COMMITTEE, Two Years.

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
George H. Hill, R. M. L. N. P.,	233	240	236	246	200	284	170	1609
Blanks,	71	83	89	53	51	112	96	555
Whole number of ballots,	304	323	325	299	251	396	266	2164

WARD ALDERMEN.

Candidate and Party.	Wards.							Totals.
	1	2	3	4	5	6	7	
Arthur H. Folger, R. M. L. N. paper,	272	...	...	...	...	...	...	...
Charles E. French, R. M. L. N. paper,	243	...	...	...	...	...	...	...
Blanks,	85	...	...	...	...	...	...	600
George E. Cornwall, R. M. L. N. paper,	252	...	...	...	...	...	...
Albert A. Day, R. M. L. N. paper,	237	...	...	...	...	...	...
Blanks,	153	...	...	...	...	...	642
Frank W. Foster, R. M. L. N. paper,	262	...	...	...	...	...
Elbridge H. Goss, R. M. L. N. paper,	258	...	...	...	...	...
Blanks,	126	...	...	...	...	646
Moses S. Page, R. M. L. N. paper,	246	...	...	...	...
John G. Robinson, R. M. L. N. paper,	245	...	...	...	...
Blanks,	95	...	...	...	586
Fred E. Everett, Republican,	210	...	...	...
Edwin E. Small, Republican,	193	...	...	...
Blanks,	97	...	...	500

	Wards.						Totals.	
	1	2	3	4	5	6	7	
George E. Berry, Nomination paper,	184	...	...
Aaron Hill, Jr., R. M. L. N. paper,	224	...	...
Charles N. Shute, R. M. L. N. paper,	269	...	...
Blanks,	113	...	790
Andrew J. Burnett, Republican,	198	...
John E. Marshall, Citizens' Nomin- tion paper,	174	...
Eben M. Taylor, Republican,	83	...
Blanks,	77	532
Total number of ballots,	600	642	646	586	500	790	532	4296

LICENSE QUESTION.

Yes,	31	46	63	35	47	63	78	362
No,	241	244	228	234	191	281	162	1581
Blanks,	28	31	32	24	13	51	26	205
Total number of ballots,	300	321	323	293	250	395	266	2148

Requests are frequently received for the vote of Melrose on the question of granting licenses for the sale of intoxicating liquors, and in order that the figures may be generally available, it seems well to publish them.

LICENSE QUESTION.

TOWN.

Year.	Yes.	No.	Blanks.	Total.
1890	53	288	—	—
1891	134	613	219	966
1892	60	293	34	387
1893	233	742	146	1121
1894	247	902	193	1342
1895	220	729	146	1095
1896	261	995	234	1490
1897	341	1011	218	1590
1898	321	1163	207	1691
1899	283	1202	236	1721

CITY.

1900	362	1581	205	2148
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LIST OF JURORS

IN THE

CITY OF MELROSE,

As prepared by the Board of Registrars of Voters,
January 31, 1900.

VICTOR C. KIRMES,
CHARLES W. COCHRANE,
EDGAR R. SOMES,
W. DEHAVEN JONES,
Board of Registrars of Voters.

Posted February 4th, 1900. Approved by the Board of
Aldermen, February 12, 1900.

Abbott, Edwin C., 93 E. Foster street.....Paper Hanger
Albee, Daniel C., 51 Malvern street.....Painter
Allen, Charles S., 83 Essex street.....Printer
Allen, William H., 184 Melrose street.....Auditor
Ames, Benjamin, 7 Gooch street.....Carpenter
Anderson, George P., 802 Main street.....Salesman
Appleton, Warren J., 46 North avenue.....Gilder
Atkinson, Jonathan H., 164 E. Foster street.....Broker
Atwood, George H., 59 Malvern street.....Manufacturer
Adams, Victor H., 300 Grove street.....Clerk
Batchelder, H. A., 41 North avenue.....Clerk
Babson, George E., 155 Porter street.....Electrician
Bailey, Calvin A., 62 Summer street.....Newsdealer
Barrett, Jonathan, 31 Cedar park.....Engineer
Belyea, Frederick W., 51 Spear street.....Carpenter
Bent, Charles A., 89 Spear street.....Florist
Blood, Mark A., 9 Vine street.....Engineer
Boden, Edward B., 13 Botolph street.....Manager
Boerum, George C., 26 Hillside avenue.....Retired Navy
Bowker, Joseph C., 25 Chestnut street.....Retired

Bucknam, George C., 1071 Main street.....Poultry Dealer
 Bean, Charles H., 17 Pratt street Pattern Maker
 Barry, Charles Gardner, 98 Hillside avenue..Civil Engineer
 Caldwell, Edward M., 73 Florence street..... Agent
 Carter, William F., 456 Main street Carpenter
 Casey, Neil S., 93 Maple street Florist
 Cassell, James P., 104 Tremont street Butter and Eggs
 Chandler, Herbert W., 292 Grove street.....Paper Hanger
 Chisam, Sanford A., 18 Eighth street Milk
 Clifford, Paul F., 3 Meridian street.....Bookkeeper
 Cook, Orange H., 150 Green street..... Clerk
 Copeland, Albert F., 59 Beech avenueClerk
 Corson, Frederick U., 555 Lebanon street.....Carpenter
 Cragin, Simeon, 25 Union street Bookkeeper
 Curran, Peter J., 90 Cleaveland street Barber
 Currier, Arthur C., 535 Lebanon street.....Carpenter
 Curry, Robert H., 109 Highland avenue.....Plumber
 Cragin, Edwin L., 25 Union street.....Meters
 Coburn, George L., 103 Crescent avenueMfg. Agent
 Darling, Leonard, 23 Union street.....Machinist
 Dearborn, Ambrose C., 315 Main street.....Teacher
 Dempsey, Wm. R., 22 East streetShoes
 Dew, George W., 82 Lake avenue.....Painter
 Doherty, Joseph J., 164 Grove street Wood Carver
 Dole, William H., 30 W. Emerson street Invigorator
 Duncan, Charles I., 90 Walton park.....Manufacturer
 Dutton, J. E., 257 Franklin street.....Buyer
 Duffy, William J., 152 Grove street Rubber Worker
 Deering, John P., 486 Lebanon street.....Lumber
 Emery, Ernest W., 51 Bellevue avenue.....Merchant
 Eastman, Harry M., 478 Lebanon streetClerk
 Eaton, Charles W., 221 Grove street.....Towel Supply Co.
 Ellison, Charles W., 20 Youle streetReal Estate
 Evers, Andrew F., Ferdinand street.....Publisher
 Fernald, Frank A., 37 East streetClerk
 Fernald, James H., 37 East streetCarpenter
 Field, Chas. M., 487 Lebanon streetMachinist
 Field, Frank S., 72 Melrose street.....Machinist
 Fish, John A., 20 Gooch street.....Heater

Fowler, Charles N., 17 Auburn street..... Window Shades
 Gile, Daniel D., 12 Hillside avenueShoes
 Gibbons, Robert, 121 Trenton street.....Carpenter
 Gilman, John H., 268 E. Foster streetGrocer
 Gordon, Curtis S., 21 Winthrop street.....Gypsy Moth
 Goss, Willis C., 20 Chestnut park.....Salesman
 Gray, John, 18 Bellevue avenue.....Books
 Green, Levi W., 307 Franklin street.....Farmer
 Hayden, Arthur L., 42 W. Foster street.....Real Estate
 Hunt, Harry, 74 Prospect street.....Brass
 Hyde, George E., 57 Rowe street.....Rubber Worker
 Henney, William T., 65 Grove street.....Painter
 Houdlette, Marcellus R, 260 Franklin street. Iron and Steel
 Jefferson, Henry E, 27 Pine streetClerk
 Johnson, Henry E., 36 Malvern streetInsurance
 Keefe, John, 36 Crescent avenue.....Rubber Worker
 Kirmes, Victor C., 85 Cleaveland street.....Clerk
 Knights, Edw. R., 48 Mt. Vernon street..... Dry Goods
 Kohr, John, 466 Lebanon street.....Clerk
 Kitching, Edwd. J., 79 E. Emerson streetClerk
 Lane, Addison, 74 Myrtle street.....Tax Collector
 Lawson, John H., 276 Franklin streetManufacturer
 Littlefield, Homer S., 65 Green street.....Clerk
 Lord, Joseph D, 51 Cleaveland street.....Butter and Eggs
 Lewis, Frank W., 28 Albion street.....Express
 Lothrop, Ellsworth F., 139 Myrtle street.....Clerk
 Loveland, Charles H., 331 Grove streetInsurance
 Love, Thomas S, 155 Myrtle street.....Carpenter
 Lucey, Jeremiah F, 114 Maple street.....Grocer
 Lyon, Charles W., 57 West Hill avenueMarketman
 Maxwell, R. F., 116 Ashland street.....Retired
 Marsh, Herbert A., 39 Cleaveland street...Butter and Eggs
 McFarlin, William J., 36 Cass street.....Variety Store
 McCullough, John J., 54 Summer street,Foreman
 Miller, John, 76 W. Foster street.....Retired
 Morton, Frank E., 35 Reading Hill avenue.....Carpenter
 Newhall, George G, 20 Trenton street.....Insurance
 Nickerson, Lemuel, 35 Irving street.....Sailmaker
 Nowell, Samuel H., 743 Main street.....Milk

Osgood, Francis T., 121 E. Foster street.....	Clerk
Palmer, Frank T., 146 Trenton street.....	Painter
Palmer, Charles E., 146 Trenton street.....	Painter
Parker, Albion W., 181 Upham street.....	Painter
Philpot, Robert, 75 Dell avenue	Livery Stable
Pierce, William P., 498 Lebanon street.....	Clerk
Pulley, James M., 33 Porter street.....	Cutter
Putnam, Elijah B., 33 W. Emerson street	Grocer
Philpot, John, 42 Sargent street	Contractor
Pike, John R., 34 Otis street.....	Cook
Robbins, Milo N., 277 W. Emerson street.....	Janitor
Sanborn, George I., 123 First street.....	Merchant
Sawyer, Henry W., 8 Bellevue avence.....	Buyer
Seaver, Walter L., 289 Porter street.....	Clerk
Smith, Alden B., 126 Green street.....	Conductor
Snow, George A., 224 Grove street.....	Clerk
Santial, George C., 23 Poplar street.....	Accountant
Schofield, William E., 101 Cleveland street.....	Bookkeeper
Turner, William, 454 Main street.....	Gate Tender
Thompson, George A., 94 Foster street.....	Clerk
Upham, Frank R., 131 Grove Estreet.....	Real state
Wheeler, Charles O., 84 Essex street.....	Cutter
Wiswell, Dexter W., 181 Upham street.....	Painter
Woodman, George F., 24 Poplar street.....	Retired
Worth, Henry W., 138 Porter street.....	Farmer
Worthen, Chase C., 103 Youle street....	Milk Dealer
Wilson, Thomas, 362 Upham street.....	Painter
Woodbury, Merton G., 14 E. Wyoming avenue....	Salesman
Woodman, Julian C., 35 Bellevue avenue.....	Lawyer

Report of City Treasurer

FOR MONTH OF JANUARY, 1900.

Cash in treasury, Jan. 1, 1900, . . .	\$5,660 02
Total receipts for month of January, . .	10,067 99
	<hr/>
Total disbursements for month of Jan'y,	\$15,728 01
	<hr/>
Cash in treasury, Jan. 31, 1900, . . .	4,909 46
	<hr/>
	\$10,818 55

W. R. LAVENDER, City Treasurer,
In account with CITY OF MELROSE.

DR.

Cash in treasury, Jan. 1, 1900, . . .	\$5,660 02
Receipts for month of January from:	
J. W. Murray, collector, sewer	
assessments,	\$1,765 99
S. A. Lovejoy, water registrar, water	
rates,	7,380 00
Geo. Newhall, executor, E. Tooth-	
aker fund,	922 00
	<hr/>
	\$10,067 99
	<hr/>
	\$15,728 01

CR.

Payments for month of January, 1900:	
Cemetery,	\$52 37
Fire department,	166 88
Interest,	500 00
Police department,	416 66
Sewer "	278 87
Street "	639 44
Tax titles,	2,347 04
Town hall,	25 00
Water department,	483 20
	<hr/>
	4,909 46
	<hr/>
Cash in treasury, Jan. 31, 1900, . . .	\$10,818 55

Examined and found correct.

June 10, 1901.

EDWIN C. GOULD, Auditor.

Report of City Treasurer.

FOR FINANCIAL YEAR ENDING JAN. 31, 1901.

Cash in treasury Jan. 31, 1900,	.	\$10,818	55	
Total receipts for year,	.	485,934	13	
				<hr/>
				\$496,752 68
Total disbursements for year,	.			
				<hr/>
				\$494,284 27
Cash in treasury Jan. 31, 1901,	.			
				<hr/>
				\$2,468 41

CEMETERY TRUST FUNDS.

Amount to credit of account Jan.		
31, 1900,	.	\$5,212 50
Received during year, viz :		
Charles W. Warner,	\$ 50 00	
Ernest A. Neiley,	50 00	
G. N. Harris, executor estate Wm.		
Bogle,	150 00	
Estate S. J. Bartlett,	150 00	
Estate C. P. F. Frentz,	150 00	
Sarah M. Coats,	100 00	
Estate Isaac Emerson,	150 00	
Samuel H. Nowell,	150 00	
Mrs. Evora Brown,	100 00	
Mrs. Bertha Barentine,	100 00	
Hiram Cobb,	100 00	
	<hr/>	\$1,250 00
		<hr/>
Amount to credit of account, Jan.		
31, 1901,	.	\$6,462 50

W. R. LAVENDER, City Treasurer,
In account with CITY OF MELROSE.

DR.

Cash in treasury Jan. 31, 1900, .		\$10,818 55
Receipts of year from		
Addison Lane, col-		
lector of taxes for		
year 1896, . . .	\$16 30	
1897,	15 50	
Receipts from J. W.		
Murray, col. of		
taxes, for year 1895, . . .	9 12	
1896,	13 11	
1897,	24 05	
1898,	587 79	
1899,	96,138 39	
1900,	131,046 79	
	<hr/>	\$227,851 05
J.W. Murray, collector taxes, sewer		
assessment.	22,050 65	
J. W. Murray, collector taxes,		
street sprinkling,	3,618 33	
Redemption tax titles, 1898, . . .	1,247 62	
Cemetery trust funds,	1,250 00	
Temporary loans,	129,600 00	
Water loan sinking fund commis-		
sioners,	10,000 00	
Commonwealth of Mass.		
Corporation and bank		
tax,	\$12,669 41	
Street railways,	1,317 96	
Military aid,	285 00	
State aid,	2,904 00	
Burial of soldiers,	70 00	
	<hr/>	\$17,246 37
Amounts carried forward, .	\$412,864 02	\$10,818 55

Amounts brought forward,	\$412,864 02	\$10,818 55
Cemetery,	4,389 96	
Health department,	41 70	
Highways,	2,238 13	
Insurance,	22 57	
Interest,	7,244 47	
Police department,	5 00	
Poor department,	1,934 25	
Public library, dog tax,	1,016 57	
Public works office,	3 78	
Sewer department,	7,216 01	
School department,	1,176 08	
Sidewalks,	267 64	
Soldiers' relief,	364 51	

TREASURY ACCOUNT.

Acct. city hall,	\$657 12	
Fees, city clerk,	296 00	
“ clerk court,	136 42	
“ house of correction,	25 00	
“ inspector milk,	61 00	
“ sealer W. & M.,	56 41	
Highways,	35 10	
Poor dept.,	383 84	
Sewer “	9 60	
School “	772 50	
Sidewalks,	203 13	
	<hr/>	
	2,636 12	
Water rates,	44,513 32	
	<hr/>	
		485,934 13
		<hr/>
		\$496,752 68

CR.

Payments for year as follows:		
Aldermanic chamber,	\$490 00	
“ “ alterations,	436 87	
	<hr/>	
Amounts carried forward,	\$926 87	\$496,752 68

Amounts brought forward,	\$926 87	\$496,752 68
Cemetery,	4,963 20	
City clerk's clerical assistance,	600 00	
City hall,	2,959 30	
Claims,	200 22	
Contingent, aldermanic,	510 52	
" assessors',	884 22	
" city clerk's,	496 00	
" collector's,	865 48	
" general,	2,526 63	
Ell Pond park,	3,255 69	
Engineer's office,	2,757 86	
Fire department,	12,346 90	
Fourth of July celebration,	569 68	
50th anniversary, town of Melrose,	86 00	
Health department,	2,730 22	
Highways,	22,248 36	
Insurance,	841 34	
Interest,	30,944 43	
Inspector of buildings,	27 50	
Melrose hospital,	1,083 33	
Memorial day,	200 00	
Military aid,	451 00	
Parks,	281 72	
Permanent loans,	12,000 00	
Police department,	12,067 26	
Poor department,	12,302 06	
Public library,	3,897 77	
Public works office,	1,136 21	
Refunded taxes,	323 67	
Salaries,	11,799 30	
School department,	84,823 09	
Sewer department,	9,763 21	
Sidewalks,	2,587 81	
Soldiers' burial,	140 00	
Soldiers' relief,	2,377 87	
State aid,	2,891 00	
Amounts carried forward,	\$248,865 72	\$496,752 68

Amounts brought forward,	\$248,865 72	\$496,762 68
Street lights,	12,397 50	
Street sprinkling,	4,334 60	
Surety bonds, city officers,	134 00	
Surface drainage,	1,037 14	
Taxes, bank,	883 15	
" county,	11,857 11	
" sewer,	9,431 01	
" state,	6,645 00	
Tax titles,	2,453 78	
Temporary loans,	147,374 37	
Toothaker, E., fund,	149 67	
Water bonds,	10,000 00	
Water department,	38,721 22	
	<hr/>	<hr/>
	\$494,284 27	\$496,752 68
Cash in treasury, Jan. 31, 1901,	2,468 41	
	<hr/>	<hr/>
	\$496,752 68	\$496,752 68

STATEMENT OF CITY DEBT.

Cemetery trust funds,	<u>\$6,462 50</u>	\$6,462 50
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SCHOOL HOUSE LOAN BONDS.

Melrose school house loan, series		
1896, due Feb 24, 1916,	\$200,000 00	
	<hr/>	\$200,000 00

SEWER LOAN BONDS.

Melrose sewerage loan, series 1894,		
due June 1, 1924,	\$100,000 00	
Melrose sewerage loan, series 1895,		
due June 1, 1925,	100,000 00	
	<hr/>	<hr/>
Amounts carried forward,	\$200,000 00	\$206,462 50

Amounts brought forward,	\$200,000 00	\$206,462 50
Melrose sewerage loan, series 1896, due July 1, 1926,	50,000 00	
Melrose sewerage loan, series 1897, due June 1, 1907,	25,000 00	
Melrose sewerage loan, series 1897, due June 1, 1912,	25,000 00	
Melrose sewerage loan, series 1897, due June 1, 1917,	50,000 00	
	<hr/>	\$350,000 00

TOWN HALL BONDS.

Town hall loan, due Sept. 1, 1912,	\$45,000 00	
	<hr/>	\$45,000 00

WATER BONDS.

Melrose water loan, high service, series of 1885, due Nov. 1, 1905,	\$37,000 00	
Melrose water loan, series of 1897, due May 1, 1907,	50,000 00	
Melrose water loan, series of 1892, due May 1, 1912,	25,000 00	
Melrose water loan, series of 1892, due Sept. 1, 1912,	37,000 00	
Melrose water loan, series of 1893, due Oct. 1, 1913,	50,000 00	
Melrose water loan, series of 1895, due July 1, 1925,	38,000 00	
	<hr/>	\$237,000 00

PERMANENT LOANS.

Loans on account Central fire sta- tion, coupon note, due Aug. 1, 1901,	\$10,000 00	
Coupon note due Aug. 1, 1902, .	10,000 00	
	<hr/>	
Amounts carried forward, .	\$20,000 00	\$838,462 50

Amounts brought forward, .	\$20,000 00	\$838,462 50
Loans on account of land adjoining old cemetery and Upham street, Melrose savings bank, due April 22, 1902,	10,000 00	
Loans on account of new stone crusher, Melrose savings bank, due Jan., 1903,	8,000 00	
Loan on account new school buildings as per vote of town, Nov. 9, 1896, Melrose savings bank, due Sept. 21, 1901,	6,000 00	
Loan on account of grading high school grounds, as per vote of town, Aug. 1, 1898, Melrose savings bank, due Sept. 21, 1901,	3,000 00	
Park loan coupon notes,		
Due May, 15, 1901,	1,000 00	
Due May 15, 1902,	1,000 00	
Due May 15, 1903,	1,000 00	
Due May 15, 1904,	1,000 00	
Due May 15, 1905,	1,000 00	
Due May 15, 1906,	1,000 00	
Due May 15, 1907,	1,000 00	
Due May 15, 1908,	1,000 00	
Due May 15, 1909,	6,000 00	
	<hr/>	\$61,000 00

TEMPORARY LOANS.

Rogers, Newman & Tolman, note due March 9, 1901,	\$25,000 00	
Harriet A. Austin, note due May 22, 1901, @ 3½%,	7,000 00	
Andrew J. Bodge, note due May 28, 1901, , . . .	2,000 00	

Amounts carried forward, . \$34,000 00 \$899,462 50

Amounts brought forward, .	\$34,000 00	\$899,462 50
Annie M. Selee, note due May 28, 1901,	2,600 00	
Water loan sinking fund com'rs, note dated July 2, 1900, on demand @ $3\frac{1}{2}\%$,	10,000 00	
Elizabeth T. Baker, note due Aug. 27, 1901, @ $3\frac{1}{2}\%$,	1,000 00	
Trustees of public library, note dated Dec. 26, 1900, on demand @ $3\frac{1}{2}\%$,	2,000 00	
Melissa A. Todd, note dated Dec. 21, 1900, on demand @ $3\frac{1}{2}\%$,	5,000 00	
Sewer loan sinking fund com'rs, note dated Dec. 27, 1900, on demand @ $3\frac{1}{2}\%$,	8,000 00	
School house loan sinking fund com'rs, note dated Dec. 27, 1900, on demand @ $3\frac{1}{2}\%$,	2,000 00	
	<hr/>	64,600 00
		<hr/>
		\$964,062 50

AVAILABLE ASSETS.

Due from state:

State aid, 1900,	\$2,676 00
Military aid, 1900,	246 71
Soldiers' burial, 1900,	105 00
Soldiers' relief, 1900,	98 00
Uncollected taxes, 1895, \$31 54	
1896, 106 71	
1897, 144 39	
1898, 714 61	
1899, 3,926 55	
1900, 104,736 23	
	<hr/>
	109,660 03
	<hr/>
Amount carried forward, .	\$112,785 74

Amount brought forward,	\$112,785 74	
Tax titles,	3,553 20	
Sewer assessments uncollected,	81,735 39	
School house loan sinking fund,	13,118 67	
Sewer loan sinking fund,	49,404 22	
Water loan sinking fund,	26,404 30	
Cash on hand Jan. 1, 1901,	2,468 41	
	<hr/>	\$289,469 93

Respectfully submitted,

W. R. LAVENDER,

City Treasurer.

Examined and found correct.

EDWIN C. GOULD,

June 10, 1901.

Auditor.

W. R. LAVENDER, Treasurer,

In account with SINKING FUND COMMISSIONERS.

WATER LOAN SINKING FUND.

DR.

1900.			
Feb.	1.	Balance,	\$16,692 99
	17.	Interest, Melrose National Bank,	\$19 37
	23.	Interest, Melrose National Bank,	14 73
June.		Interest four coupons, water bonds,	80 00
July	2.	Interest, Melrose National Bank,	15 07
	7.	Interest ten coupons, water bonds,	200 00
	7.	Interest, City of Melrose, 6 mos., 3 dys., to July 2, 1900, note \$5,000.00 @ 4%,	101 67
		Amounts carried forward,	\$430 84 \$16,692 99

	Amounts brought forward, . . .	\$430 84	\$16,692 99
July 7.	Interest, City of Melrose, 4 mos. 10 dys., to July 2, 1900, note \$15,000, . . .	188 58	
	7. City of Melrose, note of Dec. 30, 1899, . . .	5,000 00	
	7. City of Melrose, note of Feb. 20, 1900, . . .	15,000 00	
Oct. 1.	Interest, 4 coupons, water bonds,	80 00	
Dec. 6.	Interest, one coupon, water bond,	20 00	
1901.			
Jan. 2.	Interest, Melrose Savings Bank,	21 89	
		<hr/>	20,741 31
			<hr/>
			\$37,434 30

CR.

1900.			
Feb.	One half rent box, Boston Safe D. & T. Co., . . .	5 00	
	20. City of Melrose, demand note @ $3\frac{1}{2}\%$, . . .	15,000 00	
July 7.	Treasurer City of Melrose, for payment of ten wa- ter bonds, due July 1, 1900,	10,000 00	
	7. City of Melrose, demand note, July 2, 1900, @ $3\frac{1}{2}\%$,	10,000 00	
Sept. 24.	B. Williams, one Melrose water bond, No. 32, due Nov. 1, 1905, . . .	1,000 00	
	B. Williams, interest on above, 4 mos. 24 dys., .	16 00	

Amounts carried forward, . . .	\$36,021 00	\$37,434 30
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Amounts brought forward, . . .	\$36,021 00	\$37,434 30
B. Williams, premium on above, . . .	40 00	
1901.		
Feb. 1. John Larrabee, salary as treasurer, 1 year, . . .	25 00	
	<hr/>	36,086 00
Balance in Melrose Savings Bank,		<hr/> \$1,348 30

SEWER LOAN SINKING FUND.

DR.

1900.			
Jan. 12.	Balance,		\$1,299 91
	Interest, 10 coupons, sewer bonds,	\$200 00	
	Interest, 9 coupons, park loan, @ \$20,	180 00	
	Interest, 1 coupon, park loan, @ \$120,	120 00	
May.	City of Melrose, 1 coupon note, park loan, No. 1, due May 15, 1900,	1,000 00	
July 1.	Interest, city of Melrose, 6 mos. to July 1, on note \$5,890.82 @ 4%,	117 81	
	1. Interest, Melrose Savings Bank,	11 32	
Dec. 5.	City of Melrose, note Jan. 1, 1899,	5,890 82	
	5. City of Melrose, note March 14, 1899,	14,000 00	
	Interest, 11 mos. 5 days on note \$5,890.82,	219 27	
	Interest, 11 mos. 5 days on note \$14,000.00,	521 11	
		<hr/>	
Amounts carried forward, . . .	\$22,260 33	\$1,299 91	

Amounts brought forward, .		\$22,260 33	\$1,299 91
1900.			
Dec.	5.	Interest, coupons { \$160 00 } park loan, { 120 00 }	280 00
		Interest, 10 coupons sewer bonds,	200 00
1901.			
Jan.	2.	Interest, Melrose Savings Bank,	50 14
	2.	Interest, C. B. & Q. R. R. coupons, 3 @ \$17.50, .	52 50
		Interest, Melrose National Bank,	6 88
Feb.	1.	City of Melrose, note dated Dec. 27, 1900, . . .	8,000 00
		Interest, 1 mo. 4 days on note \$8,000, . . .	26 41
			<hr/> \$30,876 26
			<hr/> \$32,176 17

CR.

1900.			
Feb.	16.	One-half rent of box Bos- ton Safe Dep. & T. Co.,	5 00
Dec.	5.	4 city of Waltham bonds, due April, 1913 @ 4%,	4,000 00
		Premium on above @ 1.09¼,	370 00
		Interest on above to date,	28 44
	5	Fitchburg R. R. 5% bonds, due Dec. 1903,	5,000 00
		Premium on above @ 1.05,	250 00
		Interest on above to date, .	2 78
	3	Boston and Lowell R. R. 4% bonds, due Sept. 1905,	3,000 00
		Premium on above @ 1.03¾,	101 25
		Interest on above to date,	31 33
Amounts carried forward, .			<hr/> \$12,788 80
			<hr/> \$32,176 17

Amounts brought forward, . . \$12,788 80 \$32,176 17
1900.

Dec. 5. 3 Chicago, Burlington &
Quincy R. R. 3½ %
bonds, due July 1949, . 3,000 00
Premium on above @ 1.03¾, 112 50
Interest on above to date, . 44 92
27. City of Melrose, demand
note dated Dec. 27,
1900, @ 3½ %, . . 8,000 00

1901.

Feb. 1. 3 city of Malden 4% bonds,
due Aug. 1, 1903, . 3,000 00
Premium on above @ 102.15, 64 50
2 city of Malden 4% bonds,
due Aug. 1, 1904, . 2,000 00
Premium on above @ 102.96, 59 20
City of Melrose, demand
note @ 3½ %, . . 3,000 00
John Larrabee, services as
treasurer, one year, . 25 00
————— \$32,094 92

Balance in Melrose Savings Bank, \$81 25

SCHOOL HOUSE LOAN SINKING FUND.

DR.

1900.

Feb'y 1. Balance, \$471 34
July 1. Interest, city of Melrose,
6 mos. on note Jan. 1,
1899, \$11,783.15, . . \$235 67
Interest, Melrose Savings
Bank, 4 12
Dec. 5. City of Melrose, for note
dated Jan. 1, 1899, . 11,783 55
Interest on above to date, . 438 61

Amounts carried forward, . . \$12,461 95 \$471 34

Amounts brought forward, . . .	\$12,461 95	\$471 34
1901.		
Jan. 2. Interest, Melrose Savings		
Bank,	10 38	
Interest, 10 coupons town		
of Clinton bonds, . . .	175 00	
	<hr/>	12,647 33
		<hr/>
		\$13,118 67

CR.

1900.		
Dec. 5. 10 town of Clinton 3½%		
bonds, due July, 1930,	\$10,000 00	
Premium on above @ 1.07¾,	775 00	
Interest on above to date, . .	149 72	
1901.		
Jan. 2. City of Melrose, demand		
note dated Dec. 27,		
1900, @ 3½%,	2,000 00	
	<hr/>	12,924 72
		<hr/>
Balance in Melrose Savings Bank,		\$193 95

Respectfully submitted,

W. R. LAVENDER,
Treasurer.

Examined and found to agree with his books.

EDWIN C. GOULD,
Auditor.

June 10, 1901.

MELROSE, MASS., June 10, 1901.

To the Committee on Treasurer's and Assessors' Accounts:

GENTLEMEN: I hereby certify that I have examined the two reports of the treasurer, submitted to me by your

committee, one for the month of January, 1900, and one for the year from January 31, 1900, to January 31, 1901, and find them to agree with the books of this department.

I have also examined his reports as treasurer of the sinking funds and find them to agree with his books.

Respectfully,

EDWIN C. GOULD,
City Auditor.

Mayor Gould's Closing Address to the Board of Aldermen.

MELROSE, MASS., Dec. 26, 1900.

Gentlemen of the Board of Aldermen:

The waning hours of the nineteenth century remind me that our official relations are soon to cease forever. Such kindly elements of esteem and reciprocal friendship however as has existed between us, will not become extinct with the termination of this year of mutual labor, nor can they be until our career on earth shall have ended.

Most of your board will remain to continue the work which a trusting public has confided to your care, but the functions of chief executive will be performed by other and willing hands.

To me this is indeed a solemn moment. It marks the conclusion of more than a third of a century of varied official duties in behalf of the people of the home of my childhood.

To these positions it has been my honor to be called, in most instances by such practical unanimity as to warrant a reasonable feeling of personal pride in the unbounded con-

fidence bestowed by an intelligent and exacting yet generous public.

If such a remarkable period of service, always cheerfully rendered, has compensated the community for the rudiments of an education at their hands; for the great privilege of growing from youth to manhood and from manhood to age among them; for the bringing up of a family in joint possession of that moral, social and intellectual atmosphere so happily established and so rigidly maintained as an element of the common-weal in guiding the youthful mind to those paths which point to happiness and end in peace; then am I content, for a solemn duty to society is fully accomplished, the performance of which, however, might have been abler, but could not have been more sincere.

Few, and perhaps none of you, my friends, will have so lengthy, varied and satisfactory an experience in public affairs, but if you continue faithful to the end, no matter what may be the criticisms, no matter from whom they may come, no matter how biting and unjust may be the tongue of slander, remembering always that your own conscience is the crucial test of faithful service, and that he who wears a stainless garment is the last to wound a friend or criticise a foe, you will retire in due time possessed of that sweet satisfaction, resulting from duties honestly performed, "which nothing earthly gives or can destroy."

As to the record of the past: You have served your constituents with diligence and ability, and while we have not always agreed upon certain matters of vital interest to the public welfare, I fully believe, that as a board, you have not questioned the sincerity of my motives wherein the veto power has been exercised, because in nearly every instance that action has been sustained by you, and where it has not, I certainly maintain a similar opinion of the integrity of your purposes. It is not unusual for people to differ upon questions of public policy at all times and under all conditions, but considering certain peculiar political and individual complications which have necessarily arisen, it is a matter of sincere congratulation that no discord has de-

veloped which could be considered as prejudicial to the public good:

“ To differ is not crime,
The varying bells make up the perfect chime.”

And now gentlemen, whatever the future may reveal, and wherever my paths may lead, let me assure you that I shall look back to the first year of the life of this new city, in the interests of which we have mutually and earnestly labored, with the most sincere pleasure, and could I distribute the contents of a heart overflowing with gratitude for the honors which have been heaped upon me by the people of my happy home, all would receive a token, for there are none among them to whom I would not cheerfully extend the glad hand of friendship as we pause at the threshold of a century which should ring with the blessed tidings of peace on earth and good-will to men.

May peace and prosperity flourish within thy walls and may the choicest blessings of heaven rest upon and abide with you and with all our people.

Very sincerely,

LEVI S. GOULD,

Mayor.

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